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THIRD FIVE YEAR PLAN

SUMMARY



GOVERNMENT OF INDIA PLANNING COMMISSION

Reprint, September 1962 (Asvina 1884)

Explanatory Note

The expressions 'lakh' and 'crore' signify 100,000 and 10,000,000 respectively

Price: Rs. 1.50 nP.

This Summary outlines the principal proposals and programmes set out in the Report on the

the main Report.

Third Five Year Plan. Within the compass of such a Summary, some measure of selection of the topics to be discussed is inevitable. For a fuller account readers are requested to refer to

INTRODUCTION

This Report sets out the objectives, policies and programmes of development for the Third Five Year Plan.

Two Five Year Plans have helped strengthen the foundations of economic and social life and stimulated industrial and economic growth and scientific and technological advance.

The Third Five Year Plan seeks to give a more precise content to the social objectives of the Constitution and represents a large advance towards their realisation. It takes account of the successes and the failures in the first two Plans and sets the tasks to be fulfilled in the perspective of development over the next fifteen years and more.

Work on the preparation of the Third Plan commenced towards the end of 1958 and was carried out in three main stages. The first, leading to the publication of the Draft Outline early in July, 1960, comprised detailed studies by working groups set up at the Centre and in the States. Parliament gave its general approval to the Draft Outline in August, 1960.

The Draft Outline was discussed throughout the country and served as the basis for the preparation of the plans of States. These were considered with the Chief Ministers of States between September and November, 1960. In January, 1961, the National Development Council made its recommendations concerning the overall size and the structure of the Third Plan; the Council also set up a Committee on Savings to suggest ways of securing the maximum mobilisation of resources for the Third Plan. Finally, on May 31 and June 1, 1961, the National Development Council considered the Draft Report on the Third Plan and generally approved it.

The objectives and priorities of the Third Plan were considered carefully by five Parliamentary Committees in November, 1960, and every effort has been made in this Report to avail of the suggestions and comments offered by these Committees. Several aspects of the Plan were placed from time to time before the Committee of Members of Parliament from different political parties presided over by the Prime Minister. The Consultative Committee of Members of Parliament associated with the planning Commission also reviewed the Plan at various stages.

Throughout the preparation of the Plan, leading public men and scholars, professional associations, organisations representing industry and labour, and independent experts generously gave of their time and experience. The Planning Commission had the benefit of advice and suggestions from its Panel of Economists, Panel of Scientists, and Panels on Land Reform, Agriculture, Education, Health and Housing. It was also helped by studies initiated by the Programme Evaluation Organisation, the Research Programmes Committee, the Committee on Plan Projects, the Central Statistical Organisation, the Indian Statistical Institute and other leading organisations engaged in research. Efforts to prepare plans at the district, block and village levels, specially for the development of agriculture, cooperation, education and rural industries, were an integral part of the process of drawing up the plans of States as well as the National Plan. These local plans are a vital element in the success of Panchayati Raj, which places in the hands of the people of each area the initiative and responsibility for their own development and the means and resources for rapid advance.

The preparation of the Third Plan has been, thus, a vast national undertaking in which valuable contributions have come from many sources, and at every stage there has been the closest collaboration with the State Governments and the Central Ministries.

The Third Plan represents the first phase in a scheme of longtend development extending over the next filteen years or so, the preparation of which will now be taken in hand. In the course of this period, India's economy must not only expand rapidly but must, at the same time, become self-reliant and self-generating. This long-term approach is intended to provide a general design of development for the country's natural resources, agricultural and industrial advance, changes in the social structure and an intererated scheme of regional and national development.

The Plan sets large objectives and targets for the five-year period. They are large only in comparison with the past, not in relation to needs or to the nation's capacity to achieve. They constitute a minimum which must be assured, but their true purpose is to open the way to a still more intensive endeavour and a deeper sense of urgency.

The size of the task and the many-sided challenge should not be under-estimated. The greatest stress in the Plan has to be on implementation, on speed and thoroughness in seeking practical results, and on creating conditions for the maximum production and employment and the development of human resources. Discipline and national unity are the very basis of social and economic progress and the achievement of socialism. At each step, the Third Plan will demand dedicated leadership at all levels, the highest standards of devotion and efficiency from the public services, widespread understanding and participation by the people, and willingness on their part to take their full share of responsibility and to bear larger burdens for the future.



CHAPTER 1

OBJECTIVES OF PLANNED DEVELOPMENT

INTRODUCTION

The basic objective of India's development must necessarily be to provide the masses of the Indian people the opportunity to lead a good life. In the larger context of the world, the realisation of this objective for India, as for the other countries, is intimately tied up with, and dependent on, the maintenance of world peace. The existence of under-developed and poverty-tricken nations or peoples is itself an abiding danger to the maintenance of peace. It has been increasingly recognised that the welfare and peace of the world require the extermination of poverty and disease and ignorance from every country, so as to build up a liberated humanity.

- 2. To provide the good life to the 400 million people of India and more is a vast undertaking and the achievement of this goal is far off. But no lesser goal can be kept in view because each present step has to be conditioned by the final objective. The more immediate problem is to combat the curse of poverty with all the tills that it produces. This can only be done through social and economic advance, so as to build up a technologically mature society and a social order which offers equal opportunities to all citizens. The process involves far-reaching changes in social customs and institutions and teplacement of the old traditional order by a dynamic society, and acceptance of the temper and application of science in modern technology. To some extent recognition of this twofold aspect of change has been present in the Indian mind for generations past. Gradually it has taken more concrete shape and has become the basis for planning.
- 3. From its earliest beginnings Indian nationalism had a large element of economic thinking and social reform. Freedom was considered the indispensable means to overcome mass poverty and to reconstruct the entire fabric of India's social and economic life. As the national movement grew and spread among the people of India, its oscial content became deeper. Under Gandhij's leadership the national movement came to identify itself more and more with the service of the maxes and, progressively, the social and economic aims of the struggle for freedom became more definite.

- 4 In the Constitution the basic objectives are set forth in the Directive Principles of State Policy. Among these are:
- "The State shall strive to promote the welfare of the people by securing and protecting, as effectively as it may, a social order in which justice, social, economic and political, shall inform all the institutions of national life."

Further that—

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- "The State shall, in particular, direct its policy towards securing—

 (a) that the citizens, men and women equally, have the right to an adequate means of livelihood:
 - (b) that the ownership and control of the material resources of the community are so distributed as best to subserve the common good;
 - (c) that the operation of the economic system does not result in the concentration of wealth and means of production to the common detriment."

These general principles were given a more precise direction in December, 1954, when Parhament adopted the Socialist Pattern of Society as the objective of social and economic policy. This concept, which embodies the values of socialism and democracy and the approach of planned development, involved no sudden change, and had its roots deen in India's struggel for freedom.

5. Ever since Independence, two main aims have guided India's planned development—to build up, by democratic means, a rapidly expanding and technologically progressive economy, and a social order based on justice and offering equal opportunity to every citizen. To change the traditional society into a dynamic one, in a country with a vast population rooted in the past, was a tremendous task. To do this through peaceful and democratic means and by the consent of the people made this task even more difficult. It was inevitable that India should accept peaceful and democratic means as these have been the very methods which had been adopted in its struggle for freedom.

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PLANNED DEVELOPMENT

6. When Independence came, India faced vast problems. Planning on a national scale, encompassing all aspects of economic and social lde, was essential for rebuilding the rural economy, laying the foundations of industrial and economic progress and expanding educations.

tion and other services. Planned development was the means for securing with the utmost speed possible a high rate of growth, reconstructing the institutions of economic and social life, and harnessing the energies of the people to the tasks of national development.

- 7 In the pattern of development envisaged in the Tive Year Plans the basic objective is to provide sound foundations for sustained economic growth, for increasing opportunities for gainful employment and improving living standards and working conditions for the The first priority necessarily belongs to agriculture, and agricultural production has to be increased to the highest levels feasible. The growth of agriculture and the development of human resources alike hinge on the advance made by industry. Not only does industry provide the new tools, but it begins to change the mental outlook of the peasant. Agriculture and industry are, therefore, to be regarded as integral parts of the same process of develop-ment and, through planned development, the growth of industry has to be speeded up and economic progress accelerated. In particular, heavy industries and machine-making industries have to be developed, the public sector expanded and a large and growing cooperative sector built up. The public sector is expected to provide specially for the further development of industries of basic and strategic importance or in the nature of public utility services, other industries too being taken up by Government to the extent necessary. State trading has also to be undertaken on an increasing scale according to the needs of the economy. Thus, while making full use of all available agencies, the public sector is expected to grow both absolutely and in comparison and at a faster rate than the private sector.
- 8. With the rapid expansion of the economy, wider opportunities of growth arise both for the public and the private sectors, and in many ways their activities are complementary. The private sector includes not only organised industry but agriculture, small industry, trade and a great deal of activity in housing and construction and other fields. Progressively, it has to take the form of cooperative effort. In the context of the country's planned development, the private sector has a large area in which to develop and expand, functioning always within the framework of national planning and with an understanding of obligations towards the community as a whole. It is essential, of course, to ensure that the opportunities available in the private sector do not lead to the concentration of economic power in the hands of small numbers of individuals and businesses and that disparities in income and wealth are progressively reduced.

9. Within the scheme of development, cooperation is expected to become progressively the principal basis of organisation in several branches of economic life, notably in agriculture, small industry, distribution, construction and provision of essential amenities for local communities. Village and small industries have a crucial role in the development of the national economy, for, besides providing consumer and other goods and large-scale employment, they offer a method of ensuring a more equitable distribution of the national income and the means for the utilisation of available resources in skill and manpower. Disparities in levels of development in different regions have to be steadily reduced, and the benefits of industrialisation spread evenly between different parts of the country. In the early phases of development these aims are by no means easy to realise, and economic and social considerations have to be balanced. However, as the economy grows, it becomes possible to provide for more intensive development in the less developed areas.

10. In undertaking planned development and seeking to achieve both rapid growth and the socialist pattern of society, the basic criterion is the interest of the community as a whole, and especially of its weaker sections. However, through its very success and dynamism, a rapidly developing economy throws up new problems of organisation and management as well as of social policy. The existing social and economic institutions have, therefore, to be appraised from time to time in relation to their role in the nation's development.

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PROGRESS TOWARDS SOCIALISM

11. It is a basic premise in Indra's Five Year Plans that, through democracy and widespread public participation, development along socialist lines will secure rapid economic growth and expansion of employment as well as equitable distribution, reduction of dispartites in income and wealth, prevention of concentration of economic power, and creation of the values and attitudes of a free and equal society. These are vital objectives. Economic activity must, therefore, be so organised that the tests of production and growth and those of equitable distribution are equally met. Progress towards socialism lies along a number of directions, each of which enhances the value of the others.

Firstly a socialist economy must be efficient, progressive in its approach to science and technology, and capable of growing steadily to a level at which the well-being of the mass of the population can be secured. In under-developed countries, a high rate of economic

at the primary Level, provision of larger opportunities for vocational and higher education, grants for scholarships and other forms of aid, and improvements in conditions of health, sanitation, water supply and housing Programmes for the welfare of scheduled tribes and castes and other welfare services are vital ingredients in the scheme of economic development. As economic development proceeds, social security and insurance will also come to have high priority. The first important steps in this direction have already been taken.

13. Economic development and social services gain greater significance as means towards creating equality of opportunity in the measure in which efforts are made to develop socialism at the level of the community. In the rural areas, the community development movement has a most important role. One of its major aims is to create conditions for the growth of a progressive cooperative rural economy with a diversified occupational structure in which the weaker sections of the community are brought to the fevel of the rest. This process will be stinutated by the development of the institutions of Panchayatt Ray at the village, block and district levels. These constitute a revolutionary change in the structure of district administration and in the pattern of rural development. In the urban areas also, appropriate social policies are required, for instance, careful planing of the use of land, large-scale programmes for land acquisition, policies designed to assist the lower income groups and the poorer sections of the population, adequate taxation of capital gains and urban properties, avoidance of conspicuous and wasteful forms of construction, and public vigilance over conditions of tenancy and tents.

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DISTRIBUTION OF ECONOMIC POWER AND INCOME DISPARITIES

14. Excessive economic power in relatively few hands, and the acracy, expose the social structure to new strains and tensions, and come in the way of diffusion of economic opportunities. Yet, for various economic and technological reasons, the process of rapid economic development tends to enlarge opportunities for well-established firms to expand their size and enter new fields of enterprise. The object of policy, therefore, has to be both to prevent concentration of economic power and the growth of monopolitic tendencies and to promote a pattern of industrial organization which will lead to high levels of productivity and give full scope, within the framework of national planning, to new entrepreneurs, to medium and small-scale enterprises and to cooperative organisations. The greatest importance,

through the extension of industry, and an agricultural price policy which fully safeguards the farmer's interest and is fair to the urban consumer.

17. In a growing economy, frequently, high incomes are due to the accrual of capital gains, to trading and speculative profits and to perquisites of one kind or another which are permitted by law. Through appropriate social policies, incomes arising from capital gains, speculation, etc., must be lamited, and the State should take its due share. Secondly, through extension and improvement in the tax system, steps must be taken to ensure that such incomes as do accrue are fully taxed, evasion of taxation is severely dealt with and opportunities for tax avoidance are reduced to the minimum. It is also of the highest importance that from the point of view, in particular, of receivers of fixed incomes, falling broadly in the lower middle income class groups, prices of essential comunodities are kept down and social services, specially education, health and housing are brought within their easy reach. A group to which the greatest attention must be given are the totally unemployed and those suffering from serious under-employment. The provision of employment opportunities has the foremost prijority for them. Along with employment, education and social service benefits should also be extended as fully as possible.

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ECONOMIC AND SOCIAL INTEGRATION

- 18. Realisation of the socialist pattern of society is necessarily a cumulative process resulting from progress along many different paths. In reaching this goal, there is need now for a sense of utgency and quickening of pace, for any lag between economic and social development creates new stress. Precise data are at present lacking, and without these it is difficult to devise definite measures. An expert committee set up by the Planning Commission is engaged in reviewing changes in the levels of living which have occurred in the course of the First and the Second Plan, in studying recent trends in the distribution of income and wealth and, in particular, in ascertaining the extent to which the operation of the economic system may have resulted in concentration of wealth and of means of production.
- 19. Although many gaps remain, step by step, within the scheme of planned development, the framework of socialism is being built up, but it has to be strengthened and made more purposeful in its actual working. There must be fuller and more determined implementation of accepted policies and programmes in all spheres of public adminis-

CHAPTER 2

LONG-TERM ECONOMIC DEVELOPMENT

NEED FOR A PERSPECTIVE

For several decades, the Indian economy was almost stagnan, developing at a rate barely exceeding the growth of population. Over the past decade it has advanced at an average rate of about 4 per cent per annum, the increase in aggregate national income being about 42 per cent and in per capita only 18 per cent. Experience of the last ten years has made it clear that to make a significant impact on the level of living of the bulk of the people, the rate of economic development should be substantially stepped up, and special efforts should be made to reduce the rate at which population is increasing. Basically, the task is one of developing the natural and human resources of the country through the widest possible use of knowledge and technology, and improved organisation within the framework of a well-conceived long-term plan.

2. The process of development is a continuous one in which the priorities and objectives for each period are linked with a larger perspective. The real significance of the long-term perspective lies in its value for current decisions which, in the absence of such a view, might be wrong and costly and might call for extensive corrections subsequently. A long-term plan when worked out in sufficient detail seeks to bring out the interdependence between the different sectors of the economy and assists in a clearer understanding of possible obstacles to the growth of the economy. By analysing problems of demand and supply arising from the growth of national output and the realisation of stated social objectives, it helps in taking consistent and timely decisions regarding the optimum uses of resources, the economies of scale and location, and regional distribution of economic activities. This last is particularly important because certain problems involving conflicts of a regional character in a large and diverse country like India can only be resolved in terms of a long-term plan which fits different regions into a larger design of national development. In partidifferent regions into a target uestign of manional development. In parti-cular, there is need for advance planning in specific terms for the industrial sector, including power, transport, scientific research and technical education. While a long-term view of development is a useful suide in framing policies and programmes and assessing progress,

diversified and efficient system of agriculture, including animal husbandry, dairying, production of meat, fish, poultry, etc., provision of a balanced and adequate diet for the entire population, and the development of commercial crops to meet the increasing requirements of industry and for exports.

- 6. Basic and heavy industries.—Because of her natural resources, India has considerable potential for industrial growth. Her potential capacity to produce steel, electricity, fuel and other basic materials relatively cheaply and the large and growing domestic market place her in a favourable position to produce machinery and a large range of engineering, chemical and electrical goods needed for development. In turn, these will stimulate the growth of medium and small industries and expand employment both in urban and in rural areas. Thus, it will be possible to build up an integrated industrial structure and expand industrial production efficiently along the lines of real comparative advantage. In view of the small size of the capital and intermediate goods industry, special emphasis has to be placed on industries such as steel, coal, oil, electric power, machine-building and chemicals. Development of these industries is an essential condition of self-reliant and self-assistanted growth.
- 7. Human resources and productivity.—An essential aspect of long-term planning is that effective and speedy means should be devised for lifting the level of productivity for the nation as a whole by large expansion of facilities for general and technical education and the development of social services. The programme of expansion of trained personnel in its widest sense has necessarily to be undertaken long in advance of requirements. It is equally important that the available manpower should be used as fully and effectively as possible.
- 8. Population.—The objective of stabilising the growth of population over a reasonable period must be at the very centre of planned development. The programme of family planning, involving intensive education, provision of facilities and advice on the largest scale possible and widespread popular effort in every rural and urban community has, therefore, the greatest significance.
- 9. Resources for deselopment.—Among the principal conditions for building up a self-reliant economy, which can sustain a high rate of growth, are an adequate level of domestic capital formation, the maximum effort possible in developing exports, the availability of external assistance during the critical period of transition. A basic objective in the strategy of development is to create the conditions in which independence on external assistance will disappear as early as may be possible.

These targets indicate the order of effort called for and could form a useful basis for further studies at the technical level.

PREPARATION OF A LONG-TERM DEVELOPMENT PLAN

- 12. The quality of the statistical and technical information available plays an important role in the formulation of a long-term plan. Accordingly, in the Third Plan, special steps are being taken to improve the available statistical and technical data. These will be specially required for analysing the complex relationships and correct proportions between different branches of the developing economy. In each stage of development the whole programme has to be viewed as a continuous physical process. A considerable amount of economic, technical and statistical analysis has to be undertaken. This would include estimation of the demand for goods and services by consumers at the end of each period, studies of interindustry relations with a view to ascertaining the demand for intermediate goods, raw materials and technical personnel, and determination of investment requirements as well as possibilities of import saving and the development of exports.
- 13. A long-term plan of development embodying specific programmes and policies should be conceived not merely in broad national terms, but should take into account the possibilities of development of resources in different regions of the country so as to spread the benefits of development as widely as possible without slowing down growth itself. The long-term plan should, therefore, supply a general pattern of economic and social development which would take into consideration the needs and possibilities of different areas and harmonise these into an interprated endeayour for national advancement.
- 14. For working out a long-term plan on these lines, there is need for close and continuous collaboration between various Government agencies at the Centre and in the States and with leading institutions engaged in scientific, economic and social research. The outline of the long-term plan will be filled in as more data and knowledge become available, and the plan itself will be adjusted from time to time in keeping with technological developments, greater knowledge of resources and the progress achieved in different branches of the economy. Work along these lines has already been initiated in the Planning Commission as well as by independent research institutions, and in the course of the next three years it is proposed to devote substantial resources for the preparation of an overall plan of development covering the period up to the end of the Fifth Plan.

CHAPTER 3

APPROACH TO THE THIRD PLAN

THE approach to the Third Plan takes account of the progress of the economy in recent years, the current economic and social situation, and the country's basic social objectives and the perspective of long-term growth described in the preceding Chapters.

2. During the past decade there has been fairly rapid expansion of India's economy, the outlines of the country's future social and economie structure have been established, and foundations have been laid for the achievement of long-term social and economic goals. The total investment, public and private, increased from over Rs. 500 crores per annum at the beginning of the First Plan to about Rs. 1,600 crores at the end of the Second Plan. Investment by public authorities rose during this period from Rs. 200 crores to Rs. 600 crores per annum. Reckoned at current prices, investment during the First and Second Plans amounted to Rs. 10.110 crores, Rs. 5.210 crores being in the public sector and Rs. 4.900 crores in the private sector. During the First Plan, owing largely to the progress recorded in agricultural production, national income increased by 18 per cent as against the original target of 12 per cent. In the Second Plan, the increase in national income was 20 per cent as against the initial target of 25 per cent. Over the decade agricultural production expanded by about 40 per cent and the output of foodgrains by 46 per cent. The net output of organised manufacturing industries increased nearly twofold. A general view of the growth of the economy over the last decade may be obtained from the selected indicators of growth given in the Table below ;

item	unst	t950-51	1955-56	1960-61	percentage increase in 1960-61 over 1950-51
at 1960-61 prices,	Rs. crores	10,240	12,130	£4,500	42
at 1960-61 prices.	Rs.	284	306	330	16
index of agricultural production, foodgrain production nitrogenous-fertilisers	1949-50=100 million tons	96 52·2•	t17 65-8*	135 76·0	41 46
consumed,	000 tons of N	55	105	230	318

Estimates of production adjusted for changes in statistical coverage and methods of estimation up to 1956-57.

				Þ	ercentage increase
item	unit	t950-51	1955-56	1960-61	in 1960-61 over
area irrigated (net total) cooperative movement :	million acres	51.5	56.2	70.0	1950-51 36
advances to farmers	Rs. crores	22.9	49.6	200-0	773
index of industrial pro- duction	1950-51 = 100	100	139	194	94
production of :					
steel ingots	milion tons	1.4	1.7	3.5	150
aluminum	000 tons	3.7	7.3	18.5	400
machine tools (graded)	value in Rs. crores	0.34	0.78	5.5	1518
sulphuric acid .	000 tons	99	164	363	267
petroleum products .	million tons	_	3.6	5.7	_
cloth—mill-made khadi, handloom	million yards	3720	5102	5127	38
and powerloom	million yards	897	1773	2349	162
total .	milhons yards	4617	6875	7476	62
power ; installed capacity	million kW	2.3	3-4*	5.7	148
railways ; freight carried	million tons	91-5	114-0	154-0	68
roads : surfaced including national highways	~000 miles	97-5	122.0	144.0	48
general education :					
students in schools technical education :	million numbers	23.5	31.3	43.5	85
engineering & techno- logy—degree level					
ıntake	000 numbers	4-1	5.9	13.9	239
health: hespital beds	000 numbers	113	125	186	65
3. The record of					
uniform. There have t	een ups and de	o—zawa	ccasionally	due to	natural
causes or international					
ciencies in implementa					
problem of unemple	yment. Additi	ional er	aployment	oppor	tunilies
created during the Sec					
which 6.5 million were					
Plan there was a back					
While considerable pro					
life, inevitably there ha					
Despite failures and e	rrors that migh	it have l	been avoid	led and	weak-
nesses in the economic	and social sti	ucture t	hat still po	rsist, in	every
direction new ground	has been brol	en and	valuable o	xperien	ce has
been gained.					

[·] Figures relate to calendar years 1950 and 1955.

- 4. In drawing up the Third Plan the principal aims have been the following:
 - to secure an increase in national income of over 5 per cent per annum, the pattern of investment being designed also to sustain this rate of growth during subsequent plan periods;
 - (2) to achieve self-sufficiency in foodgrains, and increase agricultural production to meet the requirements of industry and exports;
 - (3) to expand basic industries like steel, chemical industries, fuel and power and establish machine-building capacity, so that the requirements of further industrialisation can be met within a period of ten years or so mainly from the country's own resources;
 - (4) to utilise to the fullest extent possible the manpower resources of the country and to ensure a substantial expansion in employment opportunities; and
 - (5) to establish progressively greater equality of opportunity and to bring about reduction in disparities in income and wealth and a more even distribution of economic power
- 5. The period of the Third Plan represents the first stage of a decede or more of intensive development leading to a self-reliant and self-generating economy. While India's economy is now much larger in size and in the range of its operations, it has to meet large and groung demands, and considerable investments have to be made in projects whose output will be available only in the course of the Fourth Plan. The Third Plan will, therefore, call for the maximum rate of investment that can be achieved.
- 6. The general pattern of development in the Third Plan necessarily flows in large part from the basic approach and experience of the Second Plan. However, in some important respects it represents a wider view of the problems of development and calls both for more intensive effort and a greater sense of urgency. In particular, the Third Plan will be directed towards strengthening the agricultural economy, developing industry, power and transport and hastening the process of industrial and technological change, achieving marked progress towards equality of opportunity and the socialist pattern of society, and providing employment for the entire addition to the labour force. A plan of development with these aims will make far reaching demands on the nation. It is essential that the burdens of

development during the Third Plan should be equitably distributed and, at each stage, the economic, fiscal and other policies adopted should bring about improvements in the welfare and living standards of the bulk of the people.

- 7. In the scheme of development during the Third Plan, agriculture has the first priority. Agricultural production has to be increased to the largest extent feasible, and adequate resources have to be provided under the Plan for realising the agricultural targets. The rural economy has to be diversified and the proportion of the population dependent on agriculture gradually diminished. In the development of agriculture and the rural economy during the Third Plan, the guiding consideration is that whatever is physically practicable should be made financially possible, and the potential of each area be developed to the utnost extent. One of the main aims of the Third Plan is to harness the manpower resources available in rural areas. This is to be achieved through programmes of development for which the Plan provides, supplemented by extensive rural works programmes for utilising manpower resources, specially for increasing agricultural production. Responsibility and initiative in the development of rural areas will rest increasingly with Village Panchayats, Panchayat Samitis and Zila Parishads. Service cooperatives are to be organised on the basis of the village community as the primary unit. Cooperative farming, which is vital for rural progress, is essentially a logical growth of cooperation and the approach of community development at the village level.
- 8. In the Third Plan, as in the Second, the development of basic industries such as steet, fuel and power and machine-building and chemical industries is fundamental to rapid economic growth. Programmes for industrial development have been drawn up from the point of view of the needs and priorities of the economy as a whole, the public and the private sectors being considered together. While the private sector will have a large contribution to make, the role of the public sector in the development of the economy will become even more dominant. The Third Plan will carry further the present efforts to build up small industries as a wild segment in the industrial structure by promoting greater integration between large-scale and small-scale industries, spreading the benefits of industrialisation to small towns and rural areas, and introducing improved techniques in the traditional nural industries.
- Considerable emphasis has been given in the Third Plan to the development of education and other social services. They are essential for ensuring a fair balance between economic and social

development and, equally, for realising the economic aims of the Plan. Large technological changes and increase in productivity cannot be achieved without greatly strengthening the educational hase of the community and improving living conditions.

- 10. A twofold approach has to be adopted towards the problem of unemployment. Development programmes included in the Plan have to be worked so as to yield the maximum employment of which they are capable. They have to be implemented in an integrated manner and adapted to the actual requirements of each area. In many fields, where manpower can be used more intensively, development programmes under the Plan can be speeded up and enlarged to the extent necessary in the later stages of the Plan. Action along these lines will be specially required in areas with heavy pressure of population in which there is considerable unemployment. It is reckoned that development programmes in the Plan may provide additional employment to the extent of about 14 million jobs as against increase in the labour force during the Third Plan of about 17 million. The balance is proposed to be taken care of through large-scale rural works programmes, village and small industries and other means.
- 11. For achieving a cumulative rate of growth of over 5 per cent per annum it will be necessary to undertake net investment to the extent of more than 14 per cent of the national income compared to the present level of about 11.5 per cent. This involves rasing the rate of domestic savings from about 8.5 per cent at present to about 11.5 per cent by the end of the Third Plan. Domestic resources will need to be supplemented in substantial measure by external assistance. Dependence at this stage of development on external resources serves to emphasise the importance of policies and measures for import substitution and for increasing export examings during the Third Plan.
- 12. In the scheme of production for the Third Plan care has to be taken to provide for adequate supplies of foodgrains and other consumer goods. Nevertheless, it is inevitable that from time to time inflationary pressures may emerge. The Plan postulates a price policy which will ensure that movements of relative prices are in keeping with its priorities and targets and that prices of essential goods which enter into the consumption of low income groups do not rise unduly. It will also be essential to restrain the consumption of relatively non-essential goods and services. Along with this, in planning the pattern of production, care must be taken to avoid the use of the limited resources available in the production of relatively non-essential goods and services. These measures are important not only for securing

rapid development under conditions of economic stability, but are also necessary for the mobilisation of the domestic resources and the foreign exchange needed for the successful implementation of the Third Plan

- 13. In the Third Plan stress is being placed on the careful phasing of projects in relation to one another. There should be continuity both in planning and in the flow of benefits, and some measure of balance must be preserved between projects with long gestation periods and those which can be completed over relatively short periods. In the related sectors of industry, transport and power, close coordination in planning and execution is essential not only for new projects but, cqually, for achieving rising levels of production from the existing plants. The programme of industry, including power, transport, scientific research and technical education, is conceived of as a continuous and integrated whole. Every effort has, therefore, to be made to initiate and complete within the shortest possible time the schemes which will help to raise the potential for growth within the economy.
- 14. In the Third Plan, as in the Second, the plans of States have great importance for the rapid development of the national economy. Important national objectives, as in agriculture, education and other social services and the utilisation of rural manpower, can only be realised in the measure in which the plans of States are carried out successfully. With the development of large-scale industries, specially of basic and heavy industries, State plans have to provide on a large scale for the development of power and technical education, for schemes of housing and urban development, and for measures to achieve closer integration of the rural with the industrial economy. In formulating the plans of States and determining their size and pattern to the extent possible, these considerations have been kept in view.
- 15. To a greater extent than in the past, during the Third Plan the direction and management of the Indian economy will call for improved methods and machinery for planning and execution, better statistical and economic intelligence, greater appreciation of technological and other developments occurring in different fields, fuller knowledge of the country's potential resources and, generally, for more systematic analysis and research.
- 16. In the course of the Third Plan the nation sets out to achieve as much in five years as has been realised in the ten years of the First and Second Plans. The task is large in magnitude, urgent and of great significance for the present and the future. Its administrative implications are vast and call for the highest standards of efficiency

attainable in every field of activity. Effective implementation requires the maximum mobilisation of resources, adaptation to changing needs, coordination and concentration of resources at every vital point, ability to anticipate difficulties and problems, readiness to seize upon favourable opportunities for growth and, above all, men of skill and know-ledge and organisations attuned to the objectives of the Plan. A plan of development, however elaborate or precise, is at best a framework which sets broad patterns for action. Its success rests on a variety of factors—on widespread understanding of the challenge and the burdens of development, on the release of new productive forces and uncreasing application of modern science and technology, on changes in outlook and motivation and, finally, on a climate of confidence that rapid economic development is the means both to social justice and to wider economic objectivative.

CHAPTER 4

TARGETS AND OUTLAYS IN THE PLAN

To achieve the aims set out in the preceding Chapter, it is essential that a certain minimum development should take place in different sectors of the economy during the next five years. The physical targets of the Third Plan have been formulated on the basis of these minimum needs. It is estimated that national income will go up at least by 30 per cent and per capita income by 17 per cent over the next five years. A few selected targets are included in the Table below with the object of giving a synoptic view of the Plan:

Selected Targets

item	unit	1960-61	1965-66	rcentage increase in 1965-66 over 1960-61
production	1949-50=100	135	176	30
foodgrain production .	million tons	76	100	32
nitrogenous fertilisers conse		230	1.000	335
area strigated (net total)	million acres	70	90	29
cooperative movement: adv	ances			
to farmers	, Rs. crores	200	530	16
index number of industry	1950-51=100	194	329	70
production of : steel ingots aluminum machine tools (graded)	million tons . 000 tons . value in Rs. crores	3·5 18·5 5·5	9·2 80 30 0≠	163 332 445
sulphuric acid .	. 000 tons	363	1,500	313
petroleum products	. million tons	5.7	99	70
cloth: mill-made handloom, powerloom khadi total	million yards million yards million yards	5,127 2,349 7,476	5,800 3,500 9,300	13 49 24
minerals: iron ore coal exports	. million tons . million tons . Rs. crores	10 7 54·6 645	30·7 97 0 850	180 76 32
power: installed capacity .	. million kW	5 7	12.7	123
rallways: freight carried .	. milion tons	154	245	59

item	unct	1960-61	perces inci 1965-66 ir 1965 ov 1960	ease -66 er
road transport : commercial vehicles on road	000 numbers	210	365	74
shipping : tonnage .	lakh GRT	9 0	10 9	21
general education . students in schools .	million numbers	43 5	63 9	47
technical education engineering and technology— degree level intake	600 numbers	13 9	19 1	37
health: hospital beds doctors practising	000 numbers 000 numbers	186 70	240 81	29 16
consumption levels food	cafories per capita per day	2,100	2,300	10
cloth	yards per capita per annum	15 5	17 2	11

Annexure I at the end of this Summary sets out the targets of development in the Third Plan at greater length.

- 2. Increase in population, the growing expectations of the people and the urgent need for attaining the stage of self-sustained growth over the next two or three Plan periods make 11 essential that there should be every possible effort to achieve these largets during the next five years. In addition, certain measures must be taken during the Third Plan period itself in preparation for the Fourth Plan. The physical programmes included in the Third Plan have been formulated with both these objectives in view The total cost of completing all these programmes exceeds Rs. 8,000 croses for the public sector and is estimated at Rs. 4,100 crores for the private sector.*
- 3. Past experience has shown that if a plan for a five-year period is prepared only in terms of the financial resources in sight at the time of the preparation of the Plan, the fullest use cannot be made of all the opportunities which present themselves as implementation preceeds. The physical programmes to be accepted for implementation over the five-year period should not, therefore, be altogether limited by the financial resources immediately in sight at the stage of drawing up the Plan, although the outdays have necessarily to be mobilised from year to year.

This excludes the estimated transfer of Rs. 200 crores from the public to the private sector

- 4 The estimate of financial resources has been placed for the present at Rs. 7,500 crores. Recent studies, however, indicate that there are possibilities of raising additional resources if certain measures are taken for mobilising the savings of the country. In fact to the extent that the physical targets included in the Plan are achieved, the prospects of raising additional financial resources will correspondingly improve As a result of the support which India's development plans are receiving from friendly countries and from the International Bank and other international agencies there is reason to hope that the shortage of foreign exchange may not be a major impediment in the realisation of the goals of the Third Plan. On the other hand, as the Plan proceeds, it may be found that some of the projects may not be completed within the Third Plan period and a part of the investment may be deferred to the early phase of the Fourth Plan. Whatever the consequential adjustments, special care should be taken to ensure that projects which are essential for achieving the key targets included in the Third Plan are completed in time.
- The following Table gives the distribution of the financial outlay of Rs, 7,500 erores under major heads:

inancial provisions

	r	manciai	provis	ions			
						(Rs	. crores)
head	Secon	d Plan	Third P	lan—fina	ncial pro	visions	
	totat expen- diture	percen- tage	States	Union Terri- tories	Centre	total	percen- tage
ngricultural and com- munity develop- ment	530	11	919	24	125	1,068	14
major and medium irrigation , .	420 445	9 10	630 880	2 23	18	650 1,01	9
village and small in- dustries	175	4	137	4	123	264	4
organised industry and minerals	900	20	70	ncg	1,450	1,520	20
transport and com- munications	1,300	28	226	35	1,225	1,486	20
social services and miscellaneous	830	18	863	87	350	1,300	17
Inventories .	4,600	100	3,725*	175	200 3,600	200 7,500	3 100

Out of the total financial outlay of Rs 7,500 crores in the public sector, investment is estimated to be Rs. 6,300 crores and current outlay,

This is subject to the observation made in paragraph 8 of chapter 5.

representing expenditure on staff, subsidies, etc. Rs. 1,200 corres. These figures include only that part of the expenditure on development programmes of local bodies like municipalities, panchayats, etc., as is financed by Central and State Governments as part of their Plan expenditure. They do not include the contributions which these local bodies make out of their own resources. Similarly they do not include the contributions in cash or in kind which are made by the local people in projects of a local character involving local participation.

- 6 The foreign exchange requirement for an investment of Rs. 10,400 crores is estimated to be over Rs. 2,030 crores. The level of investment, public and private, is expected to rise from about Rs. 1,600 crores in the last year of the Second Plan to about Rs. 2,600 crores at the end of the Third. Investment in the public sector is expected to go up over this period from Rs. 800 crores to Rs. 1,700 crores. The Third Plan provides for an increase of about 54 per cent in total investment, 70 per cent in investment in the public sector and about 32 per cent in investment in the public sector and about 32 per cent in investment in the public sector.
- 7. Provisions in the plans of States and at the Centre, details of which are given in Annexure II to this Summary, have been made on the principle that generally development schemes to be implemented by the States should form part of the State plans and only certain limited categories of schemes should be shown in the plans of Central Ministries as being "sponsored" by the Central Government. In this way, an attempt has been made to broaden further the scope of the plans of States and facilitate the integrated working of their development programmes. In determining the plan of each State, such factors as its needs and special problems, past progress and performance, lags in development, likely contribution to the achievement of major national targets, potential for growth and the contribution in resources were considered. The break-up of Rs. 4,022 crores, which is the total of all programmes included in the plans of States and Union Territories, together with the comparable figures for the First and Second Plans is given in Annexure III to this Summary.
- 8. The broad indications of the physical programmes and the financial provisions as shown above give a measure of the over-tall effort and the relative emphasis on different sectors envisaged in the Plan. Within this general framework, the Plan comprises a number of concrete programmes of development, which are described briefly in this Summary.
- The programmes incfuded in the Third Plan are expected to provide employment opportunities for 14 million people. In view of

the fact that, as a result of the sharp increase in population, the number of new entrants to the labour force during the Third Plan period will be as many as 17 imillion, there is special need for increasing employment opportunities further. This will in part be done through the development of village and small industries and agriculture and social services to the extent possible. In addition, it is proposed to organise works programmes in rural areas on a mass scale.

10. It is estimated that if all the programmes included in the Third Plan are completed in time, national income (at 1960-61 prices) should go up by about 34 per cent. Net output of agriculture and allied sectors should go up by nearly 25 per cent, of mining and factory establishments by about 82 per cent and of other sectors by about 32 per cent. Estimates for agriculture, mining and factory establishments are based largely on the targets of production in the Plan. In the case of other sectors, however, only indirect estimation is possible and in many cases the basic data are quite inadequate. For realising the estimated increase of 34 per cent in national income, many difficult conditions have to be fulfilled, one of the most important being that relating to the total investment to be undertaken. On certain assumptions and taking a broad view, it is considered that over the Third Plan period national income should go up at least by about 30 per cent from about Rs. 14,500 crores (at 1960-61 prices) at the end of the Second Plan to about Rs. 19,000 crores at the end of the Third Plan. On the basis of the present estimates of population, per capita income should rise from Rs. 330 in 1960-61 to about Rs. 385 at the end of the Third Plan.



MOBILISATION of resources for securing an adequate rate of growth is the crux of the problem of planning. The Plan envisages an investment programme of the order of Rs. 10,400 crores which will mean a stepping up of the investment rate from the current level of about 11 per cent of national income to about 14 per cent. Part of this investment is to be financed through external assistance. The rate of domestic savings will have to be raised from the current level of about 8.5 per cent of national income to about 11.5 per cent by the end of the Third. Plan. It is evident that this will require the fullest effort to increase total output as envisaged in the Plan and steady pursuit of economic policies designed to keep consumption within the limits set by the requirements of investment. Considering the progress that has been made over the last decade in increasing production as well as in strengthening the potential for further expansion, the investments and savings. goals and the targets of the Plan are attainable, given efficient mobilisation and deployment of resources and availability of foreign exchange.

2. Planning in physical terms or in financial terms is ultimately intended to yield the same result. These two approaches are complementary. Neither by itself gives conclusive results. The scale of investment to be decided on is, in the last analysis, a matter of judgment. This judgment roat have to be reviewed from time to time and there has to be a measure of flexibility in the Plan to permit the necessary adjustments in outlays. Since, however, the objective is to energy through the physical programmes approved, and since any shortfall or slowing down on these affects the pace of further advance, effort has to be concentrated on robilisation of the resources required. The techniques of resource robbilisation and the scope for using each one of these more effectively have thus to be kept under continuous review.

FINANCE FOR THE PUBLIC SECTOR

3. The programmes of development approved for the public sector involve an outlay of over Rs. 8,000 crores. Every effort has to be made to mobilise internal resources adequately to carry through these programmes in full. There are, however, uncertainties as to the precise phasing of projects and the actual expenditure that will be incurred. Progress on industrial projects is tied up directly with the availability

of foreign exchange. While the actual requirements of external assistance are somewhat larger, it has been declided to limit the drawings of external assistance (apart from P.L. 480) to the figure of Rs. 2,600 crores indicated in the Draft Outline. On a balance of these considerations, financial outlays in the public sector are being taken for the present at Rs. 7,500 crores. It must, however, be stressed that every effort has to be made to improve upon this estimate through more effective mobilisation of savines.

- 4. Corresponding to the Plan outlay of Rs. 7,500 erores in the public sector, investment is estimated at Rs. 6,300 erores, and current outlay, representing expenditure on staff, subsidies, etc., at Rs. 1,200 erores. The investment figure of Rs. 6,300 erores includes a sum of Rs. 200 erores for transfer to assist selected investments in agriculture, industry, housing, etc., in the private sector. Public investment proper would thus work out at Rs. 6,100 erores.
- 5. In the Draft Outline, the estimate of resources for the public sector was indicated at Rs. 7,250 crores, Rs. 6,050 crores at the Centre and Rs. 1,200 crores in the States, Later, in the light of discussions with State Governments and a further examination of the Central budget for 1960-61, the estimate of total resources was revised upwards to Rs. 7,453 erores-Rs. 6,107 erores at the Centre and Rs. 1,346 crores in the States. This estimate, rounded to Rs. 7,500 crores, was submitted to the National Development Council in crores, was summered to the Franchia Economical College of the economy, every effort had to be made to bridge the gap between the limit of Rs. 7,500 crores for financial outlays indicated by the estimates on resources and the requirements adding up to over Rs. 8,000 crores for implementing the physical programmes envisaged. It was evident that the answer to the problem depended upon how far domestic savings could be stepped up to match the larger needs. The Council savings count of stepped up to match the angel needs. The counter appointed a Committee on Savings to study and explore further possi-bilities in this direction. In the light of studies of the 1961-62 budgets of the Central and State Governments and of the scope for obtaining more resources under each of the heads of domestic savings, the Committee felt that there was warrant for taking a more optimistic view of the total resources that could be raised by the Centre and the States. It was, however, not possible at this stage to set out precisely the lines along which the gap between the requirements of physical programmes and the financial provisions could be bridged. It was also necessary to bear in mind the limitations in respect of foreign exchange resources. The problem would need continuous review in the light of the advance made each year in mobilising resources. Accordingly, while the

financial outlays for the Plan in the public sector are at present being retained at Rs, 7,500 crores, sustained efforts will be made to improve upon this and to diminish the gap through more effective mobilisation of savings.

6. The scheme of financing the public sector plan that is now envisaged is indicated in the Table below. For comparison, the contribution by each major source of finance in the Second Plan period is also shown in the Table. The last two columns indicate the estimates separately for the Centre and the States.

Financial Resources
(Estimates for the Second and Third Plao)

			Di-			ks. crores)
		Second as initially estimated	Plan as esti- mated now	Total	Third Plan Centre	States
1	balance from current re- venues (excluding addi- tional taxation)	350	(-)50	550	410	140
2	contribution of Railways	150	150‡	100	100	_
3	surpluses of other public enterprises	••	••	450	300	150
4	loans from the public (net)	700	780*	800	475	325
5	small savings (net)	500	400	600	213	387
8	provident fund (net) steel equalisation fund(net) balance of miscellaneous capital receipts over non- plan disbursements	250	170 38 22	265 105 170	183 105 428	82 (-)258
9	total 1 to 8	1,950	1,510	3,04	2,214	826
10	additional taxation inclu- ding measures to increase the surpluses of public enterprises	450†	1,052	1,710	1,100	610
11	budgetary receipts corre- sponding to external assi- stance	800	1,0901	2,200	2,200	_
12	deficit financing .	1,200	948	550	524	26
	total , , ,	4,800	4,600	7,50	6,038	1,462

Includes investments by the State Bank out of P.L. 480 funds.

[†]In addition there was a gap of Rs. 400 crores to be covered by additional domestic effort.

^{*} Included in items I and 8 in the Table.

[#]Inclusive of increased fares and freights.

[§]This includes investment of P.L. 430 funds by the Reserve Bank in special securities in 1960-61.

7. Experience of the Second Plan highlights the fact that despite all the care that may be taken in estimating the contribution likely to be secured from each of the sources indicated in the Table, the outturn on individual tiems is in practice liable to diverge from the estimates. For the five-year period ahead, it is therefore essential to focus attention on the intervence period areas, it is intercent essential to trust attention an estimates in respect of each item taken by itself. Estimates of surpluses from revenues, for example, have to be made on certain assumptions as to the growth of tax yields in response to the increase in economic activity. The growth rates in the economy may, however, vary from year to year and the response of tax yields depends on where the new incomes flow. similarly, on the expenditure side the likely trends in non-Plan expendi-ture, both developmental and non-developmental, can be estimated in terms only of broad orders of magnitude. In some respects, such as surpluses of public undertakings, the data are admittedly inadequate. Moreover, it has to be borne in mind that the different modes of raising resources are at some point inter-dependent; it is possible, for example, that while in one situation more can be secured by way of taxation, in another situation recourse to market borrowings may yield a better result. Timely availability of external assistance has also an important bearing on domestic savings and the investment effort. Consider-ing the trend in prices over the last few years and the difficult foreign exchange situation, deficit financing during the Third Plan period will have to be on a strictly limited scale.

RESOURCES OF STATE GOVERNMENTS

8. The review of States' resources undertaken in the light of the 1961-62 budgets indicates that the resources picture for the States is considerably better than the one that emerged after the discussions held with them during August-November, 1961; the total of States' resources now comes to Rs. 1,462 crores as against the estimate of Rs. 1,346 crores worked out earlier. The main factor in the improvement is the larger transfer of resources from the Centre under incometax and shareable excises. With States' resources at Rs. 1,462 crores and Central assistance at Rs. 2,375 crores the total of the resources available for financing State plans comes to Rs. 3,837 crores. This is close to the programmes costung Rs. 3,847 crores which have been accepted for the State plans.

ADDITIONAL TAXATION

Additional taxation envisaged for the Third Plan is Rs. 1,710
erores, Rs. 1,100 erores at the Centre and Rs. 610 erores in the States.
This order of taxation is the minimum essential. In order to realise this

target, it will be necessary to increase both direct and indirect taxation and to enlarge the surpluses of public sector enterprises. Direct taxation adds to the resources of the public sector by reducing dirposable incomes in the bands of the community. Indirect taxation works through reduction in the quantum of goods or services that can be bought against the incomes that are spent. The choice between the two forms of taxation has to be considered pragmatically. The point to stress is that taxation should be sufficient to keep consumption down to limits consistent with the requirements of investment as envisaged in the Plan. It is inevitable that the larger part of the additional taxation effort has to be put through by the Central Government; a good beginning has been made in this direction in 1961-62. It is no less important that the State Governments also raise an adequate share for themselves. Taxation of the rural sector falls largely within their field. They have also to mobilise more effectively elastic sources of revenue, such as sales taxes.

PRIVATE INVESTMENT

10. Private investment draws on the same pool of savings as public investment. Considering the trends in the Second Plan period, it is felt that a total of Rs. 4,300 crores by way of private investment can probably be financed consistently with the public sector's claims on savings. The break-up of this investment along with the corresponding estimates for the Second Plan period (original as well as revised in the light of later studies) are set out in the following Table:

Investment in the private sector*

		(Rs. crores)			
	original estimates	estimated investment on the revised basis	Third Plan estimates		
agriculture (including irrigation)	275	675	850		
power	40	40	50		
transport	85	135	250		
village and small industries	100	225	325		
large and medium industry and minerals**	575	725	1,100		
housing and other construction	925	1,000	1,125		
inventories	400	500	600		
total	2,409	3,000	4,300		

These figures represent aggregate investment in the private sector including that financed out of resources transferred from the public sector.

"These figures do not include investment by way of modernisation and replace-

ment.

11 Of the total investment of Rs. 4,300 crores in the Private sector, Rs. 200 crores will be provided by way of transfer of resources from the public sector. Part of the investment in agriculture, small scale industries and cooperatives will be financed out of assistance from the Reserve Bank External assistance to the private sector may be of the order of Rs. 300 crores. On the whole, investment in the private sector of the order of Rs. 4,300 crores appears feasible.

FOREIGN EXCHANGE RESOURCES

- 12 A deficiency in internal resources can within limits be met by additional effort. External resources present a more difficult problem. In the Second Plan the balance of payments deficit was Rs. 2,100 crores—almost double the original estimate. The Third Plan begins with a level of foreign exchange reserves which permits of no further drawing down. It will, therefore, be essential to make all possible efforts to interease export earnings while contaming at the same time the polley of strict budgeting and allocation of foreign exchange for imports.
- 13. The following Table sets forth the balance of payments estimates for the Third Plan:

Financing of foreign exchange requirements for the Third Plan

Financing of foreign exchange	requirem	ents for	the Third	Plan
	total	total	(Rs	annual
	S xond Plan	Third Plan	1961-62	average hird Plan
A receipts				
t exports	3,053	3,700	667	740
2 invisibles (net) (excluding . official donations)	420*	សវ	22	nıl
3 capital transactions (net) (excluding receipts of official loans and private foreign investment)	(·)172	(·) 550	(·)133	(-)110
4 external assistance	927†	2,600	575**	520
5 draft on foreign exchange reserves	598	វារវិ	len	กเปิ
total (1 to 5);	4,826	5,750	1,131	150
B payments 1 imports of machinery and equip- ment for plan projects		1,930	325	380
2 components, informediate pro- ducts etc., for raising production of capital goods	4,826	200	60	40
3 maintenance imports		3,650	746	730
total (1 to 3)2	4,826	5,750	1,131	1.150
		-1.70	-,231	2,000

^{*}Includes reimbursements from the USA for freight expenses on P.L. 480 imports initially incurred by India.

tincluding net drawings on the I MLF

^{*}Represents external assistance required for financing imports as shown below.
\$\text{P.L.}\$ 450 imports are excluded from both sides—about Rs. 534 crores for the Second Plan and Rs. 600 crores for the Third Plan.

- 14. The export target, it may be noted, is being taken at Rs. 3,700 crores as compared to the total exports of Rs. 3,050 crores realised in the Second Plao period. It will be exports of the second plao period. It will be exports of traditional as well as of new commodities. The import needs of the country as also obligations for servicing external debts are increasing and, from the point of view both of the next five years as also a longer period ahead, the fullest effort to step up exports is called for. Even with this level of exports and providing for maintenance imports of about Rs. 3,650 crores—the actual needs are larger—the external account just balances. The level of Plan imports envisaged is Rs. 1,900 crores while the requirements are Rs. 2,030 crores. The total drawings on external assistance during the Third Plan, including imports of Rs, 200 crores for special capital goods and intermedate products, and Rs. 500 crores apart from P.L. 480 assistance. The balance of payments difficulties the country is facing are part of the process of development. They will continue for some years to come. External assistance is essential for this period, but the aim must be to make the economy more and more self-reliant.
- 15. The outlook on external assistance is, on the whole, promising. At the meeting of the consortium of friendly countries held in May, 1961 under the sponsorship of the International Bank for Reconstruction and Development, India has been assured of assistance totalling Rs. 1,039 crores to provide immediate support to the rbalance of payments as well as to cover import orders to be placed during 1961-62 and 1962-63. The U.S.S.R. had alterady authorised earlier two credits amounting to Rs. 238 crores for use on Third Plan projects. A number of other friendly countries, namely Czechoslovakia, Yugoslavia, Poland and Switzerland, have also extended credits totalling Rs. 67 crores for projects in the Third Plan. Recent developments in the field of external assistance are highly encouraging; they represent a bold and cooperative approach to the problems of assisting development in underdeveloped parts of the world. They highlight correspondingly the need for the maximum effort on our part to mobilise domestic resources with the utmost vigour and to ensure that the available assistance is utilised to the fullest benefit of the economy. From the point of view of internal as well as external resources a progressive increase in productioo and in savings is vital for the success of the Plan.

CONCLUSION

16. The estimate of resources for the Plan in the public sector, which is being placed at present at Rs. 7,500 crores, is not to be interpreted as indicating the limit of possibilities in this respect. The

lines along which savings can be enlarged progressively during the Third Plan period merit intensive and continuous study. There has to be close scrutiny of all non-Plan expenditures; economies in expenditure, both on Plan and on non-Plan items, can release some resources for financing development, Experience of the Second Plan suggests that the scope for taxation may, in fact, be larger than is foreseen at this stage. Provident funds, extension of life insurance and similar social security schemes to institutionalise savings are a potential source for further resources. There is need for a country-wide savings drive, particularly in the rural areas. In the States, steps are being taken to place greater responsibilities on local self-governing institutions. Larger resources for development can be mobilised if, through these institutions, the community is induced to take greater interest and participate in local developmental programmes.

- 17. The limit to financial resources is never an absolute one; it is related to the quality of effort that is brought to bear on the implementation of projects, on enlarging their surpluses, and on preventing, through fiscal and other measures, of leakages of resources into consumption or non-priority investment. Development has in due course to become self-financing. Substantial investments have been made in the public sector over the last ten years and every effort must be made to ensure that they yield an adequate surplus on the basis of which to plan further advance. It is important that in choosing their projects for implementation, the Central as well as the State Governments keep constantly in view the need to obtain results from these investments as quickly as possible. A comparatively small delay in completing a project and putting it into productive use makes a significant difference to the resources available for investment. Even marginal improvements in planning and execution at several points can yield a large return in the aggregate. With adequate attention to these aspects of the problem, resources can be raised beyond the limits that are at present indicated.
- 18. The problem of resources thus links up with the problems of administrative and organisational efficiency. The crucial tests for the Third Plan are two: (a) the extent to which the production of food and raw materials can be increased, and (b) the energy and drive that are forthcoming for securing the auditority increases needed in export earlings. Given success in these directions, the present limitations of finance can be procressively overcome.

CHAPTER 6

PRICE POLICY FOR THE THIRD PLAN

Price policy in a developing economy has to concentrate on two main objectives: (a) it must ensure that the movements of relative prices accord with the priorities and targets that have been set in the Plan; and (b) it must prevent any considerable rise in prices of essential goods that enter into the consumption of low income groups. Both these aspects were stressed in the First and the Second Plan, and various measures were taken in the course of those Plans to correct or moderate undestrable trends. Prices, however, fluctuated widely in the First Plan period and they have shown a rising trend through the Second Plan period. At the commencement of the Third Plan, the levels of wholesale prices and cost of living are already high, and it is essential to ensure that there is no accentuation of inflationary pressures in the course of the Third Plan and that the levels of living of the more vulnerable classes in society are safeguarded.

OUTLOOK FOR THE PLAN

2. The Plan envisages a step-up in investment from the current level of 11 per cent to about 14 per cent by the end of the five-year period. This will generate money income against which there must be an additional supply of goods to avoid inflation. A part of the inflationary pressures generated by the growth of investment in the Second Plan was neutralised by the drawing down of foreign exchange reserves. This moderating factor is not available for the Third Plan. Although the production potential of the country has been strengthened considerably in the last few years, both in acriculture and in industry, and the scheme for mobilising financial resources required for the Third Plan postulates deficit financing on a strictly limited scale, the possibilities of significant and even disturbing price rises cannot be entirely eliminated. Firstly, there is the usual uncertainty in regard to monsoons. Secondly, the various restraints on consumption implicit in the Plan may not always operate to the full extent, so that a situation of excess demands may well persist over a part of the Plan period. Thirdly, while the Plan envisages a certain balance between the rates of growth in various sectors, some imbalance is almost certain to appear from time to time: investments and outputs in various lines cannot, in actual practice, be phased out with precision; there might be 'lags' in the system at various stages. In view of these factors it will be necessary during the Third

Plan to keep a close watch on prices, especially on prices of essential commodities, and to be prepared in advance with a strategy for corrective action before difficulties actually become acute.

SCOPE AND LIMITS OF PRICE POLICY

- 3 Price policy has to be viewed as an important aspect of overall conomic policy, and the question is not merely what can or ought to be done in respect of particular prices. The level and structure of prices are related to a number of basic economic decisions, some of which are taken by Government, but others rest with the producers, consumers and investors who are widely scattered and act in terms of the prospects of economic gain to themselves. A plan tries to bring these related decisions into a common focus but there are limits to which the course of prices can be altered in the short run. Certain upward pressures on prices are implicit in development and they have to be accepted. Investment adds to real national product after a time, and certain types of investment take a longer time to mature than others. The substantial transfer of manpower and other resources to new uses involves payment of larger monetary rewards. This also is a significant inflationary factor.
- 4. There are, on the other hand, factors that tend to moderate these upward pressures. To the extent that there are unused resources that can be drawn upon and in so far as in certain sectors, such as agriculture, an increase in production could be secured quickly with comparatively small investment, the expansionary pressures may be softened. Then again some of the investments made earlier add to current output, and as the level of technology and organisational efficiency improve, relatively large increases in output could be secured without a noncortionate increase in costs.
- 5. The balance between the expansionary and the moderating factors mentioned above tends, however, to be shifting and uncertain. An underdeveloped economy has to step up investments continually over a period of years and has to convert a growing proportion of unskilled rural labour into skilled workers and technicians. Various bottlenecks arise in this process of adaptation. Since real resources needed have to be mobilised through monetary incentives, and a fairly high degree of profitability secured for those sectors of the economy which have to be expanded rapidly, it is essential to be prepared for a moderate rise in the price level while directing every effort possible towards preventing a rise in the prace of essential goods. And yet, the dangers of continued or excessive price rises are obvious. If the

financial outlays in the Plan are realised only at higher prices, the real content of the Plan gets correspondingly reduced. Also an inflationary situation is not conducive to the most efficient use of resources. It distorts relative prices and tends to move resources away from the uses that have higher priority from a social point of view. The problem, thus, is one of drawing the right line between too much intervention and too little, and of devising appropriate techniques of controls and regulation at certain vital points in the system.

CONSTITUENTS OF PRICE POLICY

- 6. A major constituent of price policy in this situation is fiscal and monetary discipline. Fiscal policy must be directed to mopping up the excess purchasing power which tends to push up demands above the level of available supplies. The quantum of taxation must, in other words, be adequate to keep down consumption to the limits provided for in the Plan. A word may be said in this context regarding the price policy of public enterprises. These enterprises have an important role in enlarging public savings. They must, therefore, operate at a profit and maintain the high standard of efficiency required for this purpose. Their price policy should be such as would secure an adequate return on the investment made from public funds.
- 7. Monetary policy has to go hand in hand with fiscal policy. Just as the latter has to avoid the creation of excess purchasing power through Government operations, the former has to regulate the pace of credit creation through banks; speculative holding of commodities and accumulation of inventories need particularly to be discouraged in this context.
- 8. Commercial policy can also be used to an extent to overcome domestic shortages, but since the need for several years to come is to economise on imports and to increase exports, the pressure will continually be towards an increase in domestic prices. Thus, the scope of commercial policy is limited.
- 9. Without adequate fiscal and monetary discipline, other regulatory measures cannot have the desired effects. But, fiscal and monetary policies by themselves may also not suffice to secure the right relationship between various prices or to prevent undue hardship to low and fixed income groups. It may, therefore, be necessary to have physical allocations and direct control in certain sectors. The prices of what may be called basic essentials must be held reasonably stable; in regard to commodities that are "less essential" or could be classed as comforts or luxuries, a rise in prices may have to be tolerated. In

the case of comforts and luxuries, in fact, an important factor in policy is the need to raise more resources. The techniques of price regulation will, however, vary from commodity to commodity.

10. Government have powers to control prices and make allocations in respect of several commodities, for example, steel, eement, raw cotton, eugar, coal, chemicals, jute, etc. Both under the Essential Commodities Act and the Industrial Development and Regulation Act, the prices and distribution of a number of commodities are subject to control. Government can also adjust the rates of excise duty from time to time on all excisable articles so as to alter the relationship between particular prices. At present, this adjustment can be made only when the Budget is being presented. It would be destrable to examine whether, in the interest of flexibility, Government should take powers to alter excise duty suitably within defined limits in the course of the year. The coverage of controls on items like these and the extent to which prices may have to be adjusted upwards or downwards will have to be determined in the light of trends in production and demand as they arise from time to time.

OPEN MARKET OPERATIONS IN FOODGRAINS

11. In an economy like ours where a substantial proportion of the expenditure incurred by families in the low income ranges is on foodgrains, reasonable stability of foodgrain prices is of vital importance. Experience in this field over the last decade and more has shown clearly that this is a field in which neither complete control nor complete decontrol is feasible. Two objectives have to be kept in mind. On the one hand, the producer of foodgrains must get a reasonable return. The farmer, in other words, should be assured that the prices of fooderains and the other commodities that he produces will not be allowed to fall below a reasonable minimum. At the other end, steps must be taken to ensure that in respect of foodgrains in particular, the consumer does not have to pay excessively high prices. These are only the broad lines of action; the floors and ceilings will have to be determined in each case on a consideration of all the relevant facts. The key to stabilisation is building up of buffer stocks and operating on them through continuous purchases and sales over a wide front. A major difficulty in the past has been inadequate storage facilities with Government. It is essential as part of long-range food policy that the storage and warehousing facilities under Government's control should be rapidly expanded. It should be known that throughout the Plan period Government would buy if prices of foodgrains tended to sag and would sell if they tended to rise. These open market operations

need to be undertaken flexibly and at a large number of places so that their impact is felt directly at the points where it is needed. From this point of view, the level of stocks with Government might well have to be about 5 million tons. A network of cooperative and governmental agencies close to the farmer, licensing and regulation of wholesale trade, extension of State Trading in suitable directions and considerable sharing by Government and ecoperatives in distribution arrangements at retail stage are essential for the success of purchase and sale operations for stabilising prices and correcting seasonal and regional variations. Regulation and control of prices are in this view an aspect of the problem of institutional changes—that is, a strengthening of public and cooperative as against private agencies—that must necessarily accompany developmental planning.

12. To conclude, price rigidity is incompatible with development and some prices cannot but rise. The object must be to regulate within defined limits the prices of basic essentials. Price regulation involves action at various points, Fiscal and monetary policies have continually to be oriented towards restraint in consumption and maximisation of savings. The role of direct regulation and controls is essentially to correct imbalances in selected sectors and for this purpose buffer stocks and open market operations are vital. The Plan provides for adequate increases in the output of essential commodities; the primary task is to achieve these targets. It is also envisaged that the Government would set up and promote the necessary cooperative and State agencies for purchase and sale of foodgrains at appropriate stages so as to strengthen its power to influence the course of prices and to prevent anti-social activities like hoarding and profitering from getting the upper hand.



CHAPTER 7

DEVELOPMENT OF FOREIGN TRADE

REVIEW OF IMPORTS AND EXPORTS

With the growth of industrial production and the development of the economy as a whole, the level of imports has risen substantially over the last decade. During the First Plan period, total imports amounted to Rs. 3,620 crores—an average of Rs. 724 crores a year, Aggregate imports for the Second Plan as a whole are estimated at Rs. 5,360 crores—an annual average of Rs. 1,072 crores which is about 50 per cent higher than the average level for the First Plan. The higher level of imports during the Second Plan was mainly on account of larger requirements of capital goods, raw materials, intermediate products, components, etc.

- 2. With its larger investment programme and continued priority for development of basic and heavy capital goods industries, the Third Plan entails even larger import requirements than during the Second Plan. Payments for imports of machinery and equipment for Plan projects during the Third Plan are expected to amount to Rs. 1,900 erores. In addition, imports of components, balaneing equipment, etc., of at teast Rs. 200 crores would be required for increasing the domestic output of capital goods and equipment. After allowing for possibilities of import substitutions, provision has also to be made for a minimum of Rs. 3,650 crores for imports of raw materials, intermediate products, capital goods for replacement, essential consumer goods, etc., for the maintenance of the economy. The total import bill for the Third Plan is thus estimated at Rs. 5,750 erores excluding Pl. 480 imports of about Rs. 600 crores.
- 3. Over the past decade India's exports have on the whole been stagnant. They averaged Rs. 609 erores a year during the First Plan period and Rs. 614 erores during the Second Plan. In terms of volume, exports were higher in the Second Plan by 9 per cent; but this was not fully reflected in farger export earnings on account or ites invourable unit values. It may be added that during this decade, while total world, export trade doubled, India's share declined from 2.1 per cent in 1950 to 1.1 per cent in 1960.
- As for the pattern of export trade over the last ten years, while the exports of agriculture-based commodities did not on the whole

MEASURES FOR EXPANDING EXPORTS

- 8. Proposals for bringing about a marked increase in exports fall broadly under two groups, namely, general policies and measures relating to specific commodities. The primary object of the general policies envisaged is to create the necessary climate in the country for the export effort, to restrain domestic demands and enlarge surpluses available for export, and to reduce production costs. Beyond a point action designed to increase exports will inevitably have certain repercussions on the domestic economy.
- By far the most important condition for fulfilling the export programme is the realisation of the agricultural and industrial targets of the Plan.
- 10. If these were to fall short, measures which might otherwise be feasible would become less so. Restraints on the growth of internal consumption are an essential condition of a successful export drive. They have to be resorted to both where supplies are insufficient and for ensuring the correct priorities in investment. The rate of development of the economy would be more than proportionately enhanced through the additional exports which restraints on consumption could facilitate. As a rule, what is required is not absolute reduction in the total or the per capita consumption, but only a slowing down in the rate at which consumption increases. In taking these and other measures it is essential that there should be greater public understanding in the need to step up exports and recognition that this object eanmnt be achieved without a degree of sacrifice which is equitably shared.
- 11. For achieving export targets, it is necessary not only to create surpluses for export but also to ensure that these surpluses become available at prices competitive with those of other suppliers in markets abroad. From this point of view it is vital that inflationary pressures should be kept in check.
- 12. For developing the export effort it is essential that a considerable part of India's industry should become much more competitive than at present. Study groups have recently been set up to consider ways of reducing costs in some industries. It is proposed to review the cost studers andestaken for different industries with a view to working out the lines along which programmes for cost reduction could be pursued systematically industry by industry. It is visualised that in industries which are significant for developing exports, licensing policies should take due account of the economies of scale. This factor should also be given weight in determining the location of individual units.
 - 13 Rapidly growing internal demands have the effect of making

CHAPTER 8

BALANCED REGIONAL DEVELOPMENT

BALANCED development of different parts of the country, extension of the benefits of economic progress to the less developed regions and widespread diffusion of industries are among the major aims of planned development. In striving for such a balance, certain inherent difficulties have to be met, specially in the early phases of economic development As resources are limited, frequently, advantage lies in concentrating them at those points within the economy at which the returns are likely to be favourable. As development proceeds, investments are undertaken over a wider area and resources can be applied at a large number of points, thereby resulting in greater spread of benefits In the interest of development itself, the maximum increase in national income should be achieved and resources obtained for further investment. The process is a cumulative one, each stage determining the shape of the next. In some fields, as in industry, intensive and localised development may be inevitable. Along with this, in other areas, the aim should be to provide for more dispersed advance in sectors like agriculture, small industries, power, communications and social services. Equally with industry, investment in economic and social overheads helps to create numerous promising centres for growth. A large country with intensive natural resources, viewing each phase of its development in the perspective of a long-term plan, has the means not only to realise a high and sustained rate of growth but also to enable its less developed regions to come up to the level of the rest.

2. The two aims—increase in national income and more balanced development of the different parts of the country—are, thus, related to one another and, step by step, it becomes possible to create conditions in which resources in terms of natural endowment, skill and capital in each region are fully utilised. In each region the nature of the problem and the impediments to rapid development in particular fields should be carefully studied and appropriate measures deviced for accelerated development. The growth of large industries, especially basic and heavy industries, is frequently a spearhead of intensive and broad-based development. However, not all regions can offer equally favourable conditions for the development of large-scale industry. It is also possible to overe-stimate the significance of the location of large industrial units in relation to the living standards.

- 5. Besides the plans of the States, there are several other ways in which the Third Plan will enlarge the possibilities of development in areas which have in the past been relatively backward. Thus the intensive development of agriculture, extension of irrigation, the programme of village and small industries, the large-scale expansion of power, developments of roads and road transport, provision for universal education for the age-group 6-11 and larger opportunities for secondary, technical and vocational education, improvements in conditions of living and water supply and programmes for the welfare of scheduled tribes and scheduled castes and other backward classes will go a long way to provide throughout the country the foundation for rapid economic development. The rural works programme will expand opportunities for work in areas with heavy pressure of population and scanty development of natural resources as well as in other areas. In some parts of the country there will be considerable development in plantation industries, specially tea, coffee and rubber. Large industrial projects, river valley projects and others will serve as vital centres for future growth.
- 6. For basic industries, location has generally to be based on technical and economic considerations. In the case of industries which may be able to export a significant proportion of their output, in the national interest, the location of new or additional capacity has to be guided by the need to secure economies of scale and to enhance the ability to compete in foreign markets. But subject to these broad considerations, the needs of areas which have the necessary potential for industrial development have to be kept in view in the selection of sites for industrial projects both in the public and private sectors. The general approach must be to avoid further concentration of industrial activities in areas where considerable development has already taken place or has been planned, but expansion in existing industries in such areas cannot of course be ruled out if it leads to greater economies in production. From decisions regarding location of projects in the public sector which have been reached so far, it is apparent that there will be a fair measure of dispersal, and various regions will have a significant share in industrial development. In the licensing of industrial projects in the private sector also, the claims of under-developed regions are kept in view and locations in such areas are suggested to prospective industrialists. The progress, programmes and production targets of a number of industries in the private sector are examined from time to time with a view to securing the location of new capacity on a zonal basis. The Third Plan also includes a proposal for setting up "industrial development areas"

- 7. The benefits of a large project accrue in greater measure to the population of the region in which it is located if certain related or complementary programmes and schemes are undertaken. Therefore, as an essential feature of planning, every major project should be regarded as a nucleus for integrated development of the region as a whole.
- 8. Development potentials of different regions need to be studied in relation to the possibilities which arise from advances in technology and science. Increase in the supply of electric power and the extension of rural electrification are important factors in opening up new possibilities of regional development. Several of the less developed areas in the country will register considerable progress in these directions during the Third Plan.
- 9. The requirements of the population of relatively less developed areas in which new industrial projects may be located should be particularly borne in mind when programmes for technical, vocational and secondary education are implemented. In areas of high density, besides ensuring their own development as intensively as possible, technical training programmes should be expanded considerably, so that a body of trained workers become available for work elsewhere.
- 10. The Third Plan embodies proposals for the continuous study of economic trends and rates of growth in different areas. Underdeveloped areas which need special attention have to be more closely identified, their resources surveyed and the factors influencing their development examined. Within every State, there are areas which are more under-developed than others. It has also been agreed that the Central Statistical Organisation will undertake, in cooperation with State Statistical Bureaus, the task of preparing annual estimates of State income on a comparable basis.
- 11. Development of regions and of the national economy as a whole have to be viewed as parts of the same process. The progress of the national economy will be reflected in the rate of growth realised by different regions and, in turn, greater development of the sources in the regions must contribute towards accelerating the rate of progress in the country as a whole. Excessive emphasis on the problems of particular regions has to be guarded against, for, in the final analysis, it is as integral parts of the country that different regions can best hope to realise their full potential for growth. Balanced regional growth enterges eventually from a whole series of connected developments, many of which are of a long-term character. Whatever the present shortcomings, the aim must be that over a reasonable period,

THIRD PIVE YEAR PLAN: SUMMARY all regions in the country should realise their potential for economic

development and should attain levels of living not far removed from those of the nation as a whole. Progress in different regions must, therefore, be watched carefully and additional steps taken to speed up

development in particular areas which are found to be seriously lagging behind.

work for the new entrants to labour force, there should be additional employment for 3 million persons.

Additional non-agricultural Employment in the Third Plan.

			_								
	sector										(in lakhs)
1	construction	1*									23.00
2	irrigation a	nd po	wer								1-00
3	railways			•-							1.40
4	other trans	port a	ad con	muni	cations			٠.			8 - 80
5	industries a	nd mi	nerals					٠.			7-50
6	small indust	nes									9.00
7	forestry, fish	eries	and all	red se	rvices			٠.			7-20
8	education		••					٠.			5-90
9	health				.,						1.40
10	other social	servi	ces					٠.			0.80
11	government	58TVI	ce							a.	1.50
											67-50
12	others inclu	ding t	rade ar	nd cor	nmerce	at 56	per cen	t of to	tal for		
	11cm 1-11	•	•	•		••	٠				37-80
	total	• •	• •				• •			• •	105-30

4. It is proposed that the problem should be approached along three main directions. Firstly, within the framework of the Plan efforts have to be made to ensure that the employment effects are spread out more widely and evenly than in the past. Secondly, a fairly large programme of rural industrialisation should be undertaken with special emphasis on rural electrification, development of rural industrial estates, promotion of village industries and effective redeployment of manpower. Thirdly, in addition to other measures for increasing employment through small industries, it is proposed to organise rural works programmes which will provide work for an average of, say, 100 days in the year for about 2.5 million persons and, if possible, more.

*Since construction accounts for a large portion of the measurable employment, its break-up under different developmental acctors may be useful;

	(in lakhs)
I agriculture and community development	6-10
2 irrigation and power	4.90
3 industries and minerals, including cottage and small industries	 4-60
4 transport and communications, including railways	3 40
5 social services	3.50
6 miscellaneous	0.50
total	23:00

processing industries have to be further intensified and new industries carried into rural areas. While the rural economy is being thus built up, there is need for comprehensive works programmes in all rural areas, and more especially in those in which there is heavy pressure of population on land and considerable unemployment and under-employment. This programme will include mainly local works at the block and village levels. Works programmes will be planned for execution specially during the slack agricultural seasons. In all cases of works to be undertaken in villages, wages are to be paid at village rates. Following broadly the lines mentioned above, 34 pilot projects bave been recently undertaken. They include supplementary schemes for irrigation, afforestation, soil conservation, drainage, land reclamation and improvement of communications. On the basis of the initial experience gained in the pilot projects it is proposed to extend the programme on a large scale to other areas. Tentatively, it is envisaged that employment through works programmes should be found for about 100,000 persons in the first year, about 400,000 to 500,000 persons in the second year, about a million in the third year, rising to about 2.5 million in the last year of the Plan. The programme as a whole might entail a total outlay of the order of Rs. 150 crores over the Plan period. As the programme develops, it might be possible to consider ways of paying wages in part in the form of foodgrains. To earry out the works programmes, adequate organisations will need to be built up mainly in the States, and also, to the extent necessary, at the Centre

9. With rapid industrialisation there will be larger employment opportunities for the educated, and the educational system will have to be geared to meet the rapidly changing pattern of personnel requirements. As education expands at the secondary level, greater attention has to be given to the absorption of the educated persons into gainful employment. At present the number of educated unemployed may be estimated at nearly a million. In the Third Plan the number of new entrants, with education up to the school leaving standard or above, is estimated at about 3 million, Expansion in agriculture, industry and transport will provide large and increasing demand for persons with skill and vocational or technical training. In recent years there has been a change in attitudes towards manual work on the part of educated persons; programmes for orienting them to the requirements of the developing economy are proposed to be taken up on a larger scale. The scope for regular and continuous employment within the rural economy for educated persons at levels of income comparable in real terms to those in the towns will greatly increase with the development of conperatives and of scientific agriculture and the establishment of

democratic institutions. It should also be possible to assist fairly large numbers of young persons with education to set up small industries in rural centres at which power can be made available.

10. There is need for redeployment of skilled personnel from projects which have been completed or are nearing completion to those on which construction is to commence. Machinery created for this purpose in the Second Plan has functioned satisfactorily. While maintaining this machinery, the problem could be more manageable in size if work on similar projects is better phased and advance planning is undertaken.

CHAPTER 10

ORGANISATION OF PUBLIC ENTERPRISES

DUNING the last few years a number of major industrial undertakings have been established in the public sector. Several more are due to come in existence in the course of the Third Plan. Indeed, an increasingly large number of new enterprises will be established during each subsequent Plan period. So far, however, the main concern has been with initiating new projects and finding financial resources for them. It was getting things started which counted. The time has now come to give close attention to the question of how best to manage these enterprises so that they become more efficient producers, capable of yielding substantial surpluses which will provide for future expansion, and set an example of careful planning, good management and cordial worker and management relationship. No matter how well the project has been conceived and the plant engineered, it will ultimately succeed or fail on the strength of its management.

- 2. Public enterprises in the manufacturing field have been organised in three forms, namely (1) departmentally administered, (2) corporation constituted by a statute, and (3) joint stock companies established under the Companies Act. The usual practice till recently was to establish each manufacturing unit as an independent company. Where it was felt that some special coordination was necessary between certain enterprises, it was sought to be achieved by having a number of common directors.
- 3 It has now been recognised that proliferation of special organisations of such number and vanety as to be unmanageable should be avoided and there should be a definite policy of consolidating these organisations so as to bring together enterprises functioning broadly in the same field. This would make it possible to provide common facilities to individual units, which otherwise might be well beyond their means, and lead to overall economy and efficiency. Bringing together of several manufacturing units under the same company in this manner should not, however, lead to excessive centralisation on the part of the Board of Directors or intervention in the day-to-day activities of the individual constituent production units; otherwise, the General Manager of the undertaking will not have the necessary authoracy and initiative to ensure smooth and efficient conduct of the enterprises.

- 4. Until some years ago, in the earlier stages projects were handled departmentally. Later, a decision was taken that Government enterprises of a commercial nature should be organised as companies. At present in the case of most of the new projects, a company is formed to see the project through from the very outset, including the stage of construction. Existing companies are being encouraged to establish new units in their field and in the case of larger companies to establish their own specialised agencies for designing and construction
- 5 Efficient conduct of industrial and business enterprises requires that operational decisions should be prompt. A farge measure of delegation of authority and flexibility of operation is necessary to enable the management of the enterprise to produce results. A number of factors come in the way of efficient functioning of an enterprise, such as enough experienced men not being in positions of management, lack of quality of managemal personnel, insufficient delegation within the enterprise accompanied by failure to define responsibilities and dutles and inadequate consciousness of profit and cost.
- 6. Some important aspects, calling for suitable action, are discussed below:

Public accountability.—Democratic control of publicly owned industries is very important. At the same time it is generally agreed that a public enterprise, if it is to be run successfully, must possess a sufficient degree of autonomy from Government and Parliament. The need has, therefore, been felt for a Committee of Parliament which would enable informed parliamentary criticism to be brought to bear on public enterprises.

7. Nature and functions of the Board of Directors.—The main function of the Board should be to lay down the broad policies and general objectives of the undertakings. Subject to the policies laid down, the Managing Director or the General Manager should have full authority and he should be held responsible for achieving the necessary results. The Managing Director and/or Chairman should be appointed by the Government and, except in the case of very small concerns, should be full-time. Membership of the Board should be on the basis of ability, experience and administrative competence. The Board of Directors should have adequate powers to make appointments and to fix salaries. The wide delegation of power from the Ministry to Company, controlling several undertakings of allied character, should be accompanied by sufficient delegation of authority by the Company to the General Managers of individual enterprises; otherwise the defects of excessive centralisation would remain and the operation of individual undertakings would be adversely affected.

8. Managing Director/General Manager.—The leadership, guidance and the main driving force must come from the Managing Director/the General Manager. He must be selected on the basis of technical competence, administrative ability and quality of leadership. He must copy real autonomy within the framework of general rules laid down and must be held responsible for the results. Day-to-day decisions should be his concern. It must be recognised that some mistakes will occur for these are inevitable when decisions have to be taken quickly in the interests of efficiency. For the proper discharge of his responsibilities, subject to performance, the General Manager should remain in charge of an undertaking for a reasonably long period so that he has an intumate knowledge of the problems and possibilities of his enterprises.

The General Manager should have enough supporting management staff to provide adequate control, supervision, direction and training for all employees He should delegate and define adequate authority to them and then hold them responsible for performance.

- 9. The Role of Financial Advisers.—All companies should be provided with an internal Financial Adviser who should function subject to the authority of the General Manager. The Financial Adviser should concern himself with problems of financial management rather than devote exclusive attention to those of control of expenditure.
- 10. Building up of Management Cadres.—The efficient functioning of the enterprises will depend greatly on two important factors bearing on personnel management, namely training for position of responsibility in the organisation and development of personnel to serve as second line for eventual selection to key appointments. The personnel should not only be technically qualified but should also develop an "all-plant" outlook.
- 11. Advance planning—Planning, that is deciding in advance what is to be done, is a precondition for the success of an enterprise. It provides the basis for organisation, assembling of recourses, direction and control. 'The plans-for a given enterprise should fall into a hierarchy. A general objective is accompanied by a whole series of successively more detailed -plans, each designed to implement the general plan of which it is a part. Similarly, there have to be general plans for longer periods, say, five years, annual operational plans and budgets and detailed day-to-day programme of individual departments.
- 12. Advance planning provides an opportunity for seeing that each part fits in with the other and is directed towards the overall purpose. When bottlenecks or weak spots are uncovered by careful and realistic

advance planning, there is often time to find a remedy before the event occurs, whereas expensive breakdowns may be unavoidable if corrective action is not initiated until overwhelmed by a crisis. Setting up of specific goals and sub-goals is an inseparable part of the whole planning process. A wide variety of operating standards and 'norms' need to be set up to express the anticipated results of the more detailed plan.

- 13. Incentives.—An enterprise which has worked realistic 'norms' of performance would find it easy to introduce systems of wage incentives, which play an important part in raising labour productivity, reducing costs and improving quality. These should be introduced on the largest possible scale.
- 14. Research departments.—It is necessary to maintain adequately staffed Research and Development Departments in the public undertakings which should constantly endeavour to improve the quality of the product and operational and technical efficiency through scientific studies.
- 15. Personnel relations.—The enterprises in the public sector have a special obligation to follow labour policies which are conductive to securing and keeping a competent working force at a reasonable cost.
- 16. Surpluses and their utilisation.—It is incumbent on public enterprises to produce efficiently and to accumulate surpluses which should be earmarked for further development. They must also assume responsibility for continuously improving their performance, for initiating and planning their growth and expansion and for securing the requisite resources.
- 17. The purpose of this brief review is not to prescribe detailed operational recommendations for individual enterprises but to touch upon some significant aspects to which greater attention needs to be given.



CHAPTER 11

ADMINISTRATION AND PUBLIC COOPERATION

INTRODUCTION

THE Third Five Year Plan envisiges a scale of national effort far exceeding that of the preceding decade. A statement of its objectives and targets can scarcely convey the scope and range of the tasks which the nation has undertaken to fulfil during the next five years. In the last analysis the Plan rests on the belief that the requisite effort will be forthcoming and that, at each level in the national life, within the limits of human endeavour, an attempt will be made to implement it with the utmost efficiency. Of the many assumptions on which a Five Year Plan is based, this is not only the most important but also the most difficult.

- 2 The Plan has to be implemented at many levels—national, State, district, block and village. At each level, in relation to the tasks assigned, there has to be cooperation between different agencies and an understanding of the purposes of the Plan and the means through which they are to be secured. In a vast and varied structure organised on a federal basis, a great deal depends on being able to communicate effectively between different levels and at the same level between different agencies. In a developing economy the functioning, side by side, of an expanding public sector and a private sector, which is in part organised and in large part unorganised, also raises difficult administrative problems
 - 3. The past decade has been a period of considerable change and additions in the field of administration. Innovations have been introduced and new institutions established, although perhaps many of them have yet to be fully integrated with one another and with the structure as a whole. With increase in the range of Government's responsibilities and of the tempo of development, the volume and complexity of administrative work have also grown. The administrative machinery has been strained and, at many points in the structure, the available personnel are not adequate in quality and numbers. The administrative burden of carrying out plans of development, large as it is at present, will increase manifold under the Third Plan, and doubtless new problems in public relations will also come up. As large burdens are thrown on the administrative structure, it grows in size; as its size increases, it becomes slower in its functioning Delays occur and affect operations at every stage and the expected outputs are further.

deferred. New tasks become difficult to accomplish if the management of those in hand is open to just criticism. In these circumstances, there is need for far-reaching changes in procedures and approach and for re-examination of prevalent methods and attitudes.

4. In the recent past, certain aspects of administration have attracted pointed attention. These include the slow pace of execution in many felds, problems involved in the planning, construction and operation of large projects, especially increase in costs and adherence to time schedules, difficulties in training men on a larger scale and securing personnel with the requisite ealibre and experience, achieving coordination in detail in related sectors of the economy and, above all, enlisting widespread support and cooperation from the community as a whole. In the larger setting of the Third Plan, these problems are accentuated and gain greater urgency. The benefits that may accrue from the Third Plan will depend in particular, in the early stages, upon the manner in which these problems are resolved. There is need for far-teaching changes in procedures and approach and for re-examination of prevalent methods and attitudes.

EFFICIENCY AND STANDARDS

5. Each area of development administration has its own specific problems. There are, however, some common directions of reform which are applicable to all branches of administration. The primary aim must be to ensure high standards of integrity, efficiency and speed in implementation. To an extent, speed in implementation and efficiency in individual processes are inter-related. It is however recognised that changes in organisation and procedures have to be supported by greater attention to the training of personnel, to supervision and reporting and evaluation. Nevertheless, without a concentrated attempt to make the administration much more action-oriented than at present, these measures may not yield enough results. For the execution of any programme or project, the primary need is to fix specific responsibility on the agency concerned and, within it, on particular individuals, within defined limits, each individual should be given full responsibility and, with it, the necessary measure of support and trust. Consultations, which are at present too frequent and too concerned with death and, therefore, impede effective action, should be reduced to the minimum and confined to broader matters. Exercise of financial control is an important aspect of this problem.

Success or failure should be judged by the test of results. To facilitate this, in the planning stage, care should be taken to specify the tasks to be undertaken, the means to be employed, the obligations of the various agencies and individuals concerned, and the time sequence in which different operations must flow and dovetail into one another.

In relation to Central Ministries and Secretariat Departments, whose main concern should be with matters of policy, general supervision and enforcement of standards, executive agencies should be strengthened and enabled to function on their cave.

- 6. All targets should be worked out after eareful study and should be further broken down into smaller units in terms of time schedules and responsibility for execution. Five-year targets should also be reassessed each year in the light of experience, and a further view taken reaarding the likely future trends.
- 7. There are several directions in which material incentives can be useful, for instance, in industrial undertakings. But, besides these, there should be an increasing scope in administration for the development of non-material incentives, especially various forms of appreciation and recognition of worth, a sens of partnership in a common endeavour, and human relationship based on mutual respect and friendliness.
- 8. In the light of experience gained during the Second Plan, the following are the principal suggestions for increasing the speed and efficiency of implementation of projects in the public sector and securing greater economy in their construction and operation:
 - Large projects take considerable time to yield results and plans for them require eareful preparation. In each field they should form part of a scheme of development stretching over a longer period, say, 10 to 15 years.
 - (2) For a considerable number of projects included in the Third Plan, information available even at this stage leaves much to be desired. It is essential to undertake detailed studies well in advance of the time for the consideration and approval of projects. Work on the preparation of projects included in the Third Plan should be completed with the utmost speed. Project studies in relation to Fourth Plan should be taken in hand so that they are substantially completed in the course of the next three years.
 - (3) The Central Ministries concerned with the industrial development should take early steps to organise well-equipped technical planning cells. Ministries might also consider maintaining panels of technical advisers for selected industries.
 - (4) Major State undertakings should take steps to strengthen and, where necessary, set up suitable design and research

units. Wherever feasible, the preparation of new projects should be one of their primary responsibilities. This would enable technical planning cells in the Ministries to concentrate on the broader technical and economic aspects of the execution of the projects and on problems requiring coordination at the level of policy and administration.

- (5) The present arrangements for the scrutiny of cost estimates and examination of economic aspects of projects should be considerably strengthened. Each year the Ministry of Finance should be in a position to present a report appraising the financial and economic aspects of all industrial undertakings of the Central Government.
- (6) It is essential that in large projects, which have a long gestation period, work should be phased so as to provide a continuous flow of benefits at each stage in the Plan. This requires a high degree of ecordination between different stages or parts of the same project as well as in related sectors. Coordination is needed both at the operational level and in the planning of parallel or complementary investments. To ensure the success of projects, there should be the utmost emphasis on advance planning, accurate estimates of the costs and continuous improvement in programme and technique.
- (7) In large projects under the same overall management, there should be special units to assist the management in keeping down costs, raising productivity, setting norms and checking performance. In respect of large industrial and other projects with which they are concerned, the Central Ministries and States should review their existing arrangements for achieving these objects. The proposed units should function under the control of the top management authorities without, however, being involved in day to day operations.
- 9. In a planned economy, there must be the same connects in the public, for securing economies, utilising indigenous materials, saving on foreign exhange, outlays for maintenance of production as well as for development, accelerating exports, expanding employment and, generally, improving the quality of service. Development Councils should bring the best leadership in each industry to bear on the solution of common problems and the achievement of high standards of management and welfare. They should be enabled to enlarge their contributions in these directions.

PERSONNEL

- 10 The main problem is one of developing personnel with the necessary outlook and experience which will ensure the success of the Third Plan. With this in view the following suggestions are offered in the Plan.
 - (1) There are certain fields in which, for many years to come, personnel at the highest levels will be inadequate or experience of a specific character will not be sufficiently available. In these fields, in the interest of rapid development itself, it will be desirable for a period to arrange to supplement the available indigenous personnel.
 - (2) One of the key tasks in every sector of the Third Plan is to build up competent managers who know their own job and have the ability to lead. For the most part, these men must be found from the middle grades of personnel within each organisation Persons from these grades should be given a greater share of responsibility in day to day work, and should have the opportunity of gaining experience in the higher functions of management. Along with this, within each project, it is essential to establish the practice of consultation and exchange of views as between different levels within the organisation as well as at each appropriate level.
 - (3) Rapid transfers of officials engaged in important programmes injure both continuity of operations and the morale of organisations whose work at the present stage of development is nearly always of a difficult and pioneering character in any major key assignment, a period of less than five to ten years is rarely sufficient for producing large results. To secure this, there should be no hesitation in assuring expectations of promotion to the individuals concerned.
 - (4) Each large project in the public sector should have, wherever possible, a well organised training programme for apprentices, etc., supported by institutional training at polytechnics or other centres.

ECONOMY IN CONSTRUCTION

11 In many fields of development, construction costs account for a substantial proportion of the expenditure. With attention to certain elementary prerequisites there is considerable scope for saving on construction works. The question of securing economies in construction has been considered in consultation with Central Ministries and

State Governments and there is general agreement on the measures to be adopted. These are set out in the Plan.

IMPLICATIONS FOR PLANNING

- 12. In view of the large dimensions of the problems of management, planning and implementation in the Third Plan, it is necessary to take a fresh view of the ways in which the machinery and the process of planning at various levels may be improved, evaluation made more incisive, and planning equipped with better statistical and other tools. The following are the principal directions in which the eusting schemes and organisation of planning may be strengthened.
 - (1) Large projects in industry, transport, power and other fields have now an increasingly important place in national planning. The Planning Commission will endeacour to keep in touch with the working of these projects and assist Ministres and States with objective analysis and reporting from the wider consideration of the national economy as a whole. From this angle the Planning Commission's own work and that of the Committee on Plan Projects and the Programme Evaluation Organisation are being reviewed. It will be necessary to ensure close collaboration with vanous statistical agencies and to enlarge the scope of economic and social research.
 - (2) In collaboration with Ministries and States considerable improvement will need to be effected in the present system of reporting upon projects.
 - (3) The plans of States have a crucial role in fulfilling the economic and social objectives of the Third Plan. States will also participate in the drawing up of the long-term plan. Although, within limits of its tasks as conceived thus far, the machinery for planning in the States has served well, it will now be necessary for States to consider the lines along which the existing arrangements for planning at the State level should be further strengthend.
 - (4) The introduction of Panefiayati Raj places much greater responsibility upon Departments at the State level, technical and other officials at the district level and extension workers in the blocks. The success of the Plan, as of the Panehayati Raj itself, will depend upon a correct approach to various problems being adopted from the start both by the representatives of the people and the official agencies.
 - (5) In the plans hitherto formulated urban areas have not

been actively associated. It is envisaged that in the next phase of planning, as many towns and cities as possible, and, at any rate, those with a population of 100,000 or more, should come into the scheme of planning in an organic way, each city mobilising its own resources and helping to create conditions for a better life for its citizens. Preparation for thus should begin early in the Third Plan.

PUBLIC COOPERATION AND PARTICIPATION

- 13 For a developing country which cherishes its democratic values and traditions of constructive work, the people's part in the attainment of social and economic objectives is of supreme importance. The concept of public cooperation is, in its wider aspect, related to the much larger sphere of voluntary action in which the initiative and organisational responsibility rest completely with the people and their leaders, and does not rely on legal sanctions or the power of the State for achieving its aims Properly organised voluntary effort may go fat towards augmenting the facilities available to the community for helping the weakest and the most needy to a somewhat better life. For securing fuller involvement of the people, their obligations and responsibilities in relation to specific development programmes should be made known in clear and precise terms. The transformation now occurring at the base in the rural areas as a result of Panchayati Raj will facilitate the fuller play of the knowledge and initiative of the people in dealing with the local development programmes.
- 14 The distinctive feature of public cooperation programme is the presence of the contribution of voluntary service on a considerable scale. The emphasis of voluntary services is now shifting from welfare to socio-economic activities. National programmes which require urgent attention are slum clearance and improvement, consumer cooperatives stores, hospital welfare services, etc., in the urban areas; and literacy, mass education, strengthening of panchayats and service cooperatives and more active participation in other community development programmes in the rural areas. Voluntary agencies will also be assisted to take up construction works on river valley projects, smaller and local works, simple masonry works and supply of building material. Besides avoiding excessive dependence on contractors, this will lead to the utilisation of idle manpower, economy in construction costs and a better deal for labour and will make available additional resources for welfare activities.
- 15 The existing arrangements for creating better understanding and appreciation of the significance, objectives and priorities of the Plan should be intensified so as to promote widespread people's parti-

cipation. The message of the Plan has to be carried to the masses throughout the country.

- 16. In the context of public cooperation, there are certain higher tasks which are related to the basic needs, ideals and goals of the nation. In the present circumstances they create special obligations for the people. The foremost need now is that the attitudes of the people and the pattern of conduct, which prevail in the community, should be in harmony with the national purposes. In this there are three constituents: love of the nation and faith in its destiny, leading to consciousness of integrity and unity, progressive socialisation and cooperative growth as the basis of social and economic order, and right living.
- 17. Since so much is expected of voluntary organisations, it is important that in their organisation and techniques they should become capable of discharging their tasks. To make effective use of the resources at their disposal, voluntary organisations must undertake advance planning, proper assessment of requirements, training of personnel, systematic execution and adequate supervision and evaluation. They should establish a relationship of intimate collaboration with local bodies and for certain purposes should act as agencies of municipalities, Panchayat Samitis, Panchayats, etc. The programmes should be framed jointly and the role and place of voluntary organisations clearly specified. Official agencies should assist, leaving the direction and control to the leadership of voluntary organisations. In this way alone these organisations can acquire a national character and make an appeal to all citizens irrespective of their political affiliations. Small units of voluntary workers meeting local needs should be encouraged and helped by the larger bodies. In the rural areas, the Lok Karva Kshetra which corresponds to the area of a community development block will offer a common platform for voluntary bodies and bring about the integration of their activities at the field level. The approach is now being extended to urban areas also.
- 18. University Planning Forums are expected to play an increasing role during the Third Plan, bringing universities and colleges into closer contact with the larger community and enabling teachers and students to contribute towards national development in constructive procrammes.

CHAPTER 12

AGRICULTURE AND RURAL ECONOMY

INTRODUCTION

PROGRAMMES for the development of agriculture and the rural economy cover a wide field Efforts to increase agricultural production lie at the base of the comprehensive approach to the reconstruction of the rural economy which is embodied in the Third Five Year Plan, Development of irrigation from large as well as small works, soil conservation programmes and supplies of fertilisers, improved seeds and credit, along with the provision of extension services reaching down to the village level, are measures undertaken directly to increase production. Through the community development movement, the energies of each village community as a whole are sought to be harnessed and its manpower and other resources effectively mobilised. Schemes of agricultural production are closely bound up with the success of animal husbandry and dairying and the development of fisheries and of rural industry. From the aspect of long-term development, care of forest wealth, conservation of soil and moisture and the growing of village fuel plantations are of great importance. The various programmes of cooperative development which have been undertaken and will be given still greater emphasis in the Third Plan are intended to build up the necessary institutional frame-work for rapid economic development in rural areas such as will be of special benefit to the weaker sections of the rural population. Land reform policies aim at removing impediments to greater production due to the agrarian structure inherited from the past and preparing the way for the development of a progressive agriculture organised on a cooperative basis scheme of transformation of rural life, which is being implemented through successive Five Year Plans, a major question which stands out concerns the means to be adopted for bringing about improvements in the economic conditions of agricultural labourers and the removal of social disabilities from which they have suffered in the past. Different aspects of rural development are, thus, inter-related, Against this background it is proposed to outline briefly in this Chapter the proposals in the Third Five Year Plan relating to .

- I. Agricultural Production;
- 11. Animal Husbandry, Dairying and Fisheries;
- III. Forests and Soil Conservation:

In certain directions progress during the Second Plan was less than had been hoped for, notably in programmes requiring large-scale participation on the part of the people (such as soil conservation), in the supply of fertilisers, in early utilisation of the benefits of irrigation, and in intensive work at the field level. Consequently, a much larger task in agreculture remains to be accomplished during the Third Plan More than any other factor, the success of the Third Plan will turn on the fulfilment of its agreeultural tarcets.

APPROACH TO THE THIRD PLAN

- 3 In formulating agricultural production programmes for the Thurd Plan, the guiding consideration has been that the agricultural effort should not be impeded in any manner for want of financial or other resources. Accordingly, finance is being provided on a scale which is considered adequate, and the further assurance is given that if, for achieving the targets of production, additional resources are found necessary, these will be provided as the Plan proceeds. Supplies of fertilisers are also to be made available on a large scale. Effarts are being made to strengthen agricultural administration in the States, and stress is being placed on the closest possible coordination between different agencies, notably those concerned with agriculture, cooperation, community development and irrigation. Supplies of credit through cooperative agencies are being expanded, and the need for Inking credit with production and markting is complaised.
- 4 The central task of the community development organisation and of extension workers at the block and village levels is to mobilise the trual community for intensive agricultural development, to impart a sense of urgency and direction to the work of all the agencies operating on behalf of the Government, and to ensure that the requisite supplies, services and technical assistance are available at the right time and place and in the most effective manner possible. At the same time, the Agriculture Departments must place at the disposal of the community development organisation at the block level the supplies, trained personnel and other resources needed. This means that all families in the village, specially those engaged in cultivation, must be involved in the agricultural effort through the village cooperative and the panchayat, and enabled to achieve larger results through village production plans. There is also urgent need to improve the organisation of agricultural programmes at the local level as well as higher levels in the States and at the Centre.
 - 5. The Third Plan provides for a total ourlay of Rs. 1,281 crores

for agricultural programmes compared to Rs. 667 crores in the Second Plan .

Outlays on Agricultural Production

	(Rs cr	ores)
	Second Plan	Third Plan
agricultural production	98-10	226 07
nunor irrigation	94 94	176 76
soil conservation	17 61	72 73
cooperation	33 83	80 10
community development (agricultural programmes)	50 00	126 00
major and medium irrigation	372-17	599 34
total	666 65	1,281 00
In addition, short-term and medium-term loans	amounting to	Rs. 530

crores and long-term loans (amount outstanding) of Rs. 150 crores are expected from cooperative agencies,

PROGRAMMES OF DEVELOPMENT

 The main targets under different de agriculture are summarised below; 	evelopment progr	ammes for
Targets of agricultural program	me : Third Plan	
programme	unit	target
I. irrigation		
major and medium irrigation (gross) minor irrigation (gross)	million acres million acres	12 8 12 8
(a) agriculture (b) community development total	million acres	9·5 3·3 25·6
II, soil conservation, land reclamation, etc.		
(a) soil conservation on agricultural lands (b) dry farming (c) land reclamation (d) reclamation of salue and alkaline lands.	million acres million acres million acres million acres	11.0 22.0 3.6 0.2
 additional area under improved seeds— foodgrains. 	million acres	148-0
IV. consumption of chemical ferbisers		
(a) nitrogenous (N) (b) phosphatic (P2O3) (c) potassic (K2O)	thousand tons thousand tons thousand tons	1,000 400 200
V. organic and green manures		
(a) urban compost (b) rural compost (c) green manuring	million tons million tons million acres	5-0 150-0 39-0

The various programmes mentioned above have to be implemented with the largest measure of participation on the part of local communities and as many families as possible have to be reached through

million acres

50.0

VI. plant protection

village production plans. Specially intensive development work will be undertaken in 15 districts which have been selected because of their favourable conditions.

7 The Plan lists in respect of each of the programmes mentioned above the principal shortcomings encountered during recent years and suggests the lines along which work during the Third Plan should be organised. In respect of the minor arrigation programmes, the aspects emphasised include the need to develop minor irrigation as a commity programme in which local contributions in money and labour play a large part, the importance of systematic surveys and investigations, the need to place certain obligations by law on local communities and beneficiaries for the maintenance of minor irrigation works, and reduction of time lags between completion of works and realisation of their benefits. Much greater stress has to be laid in the Third Plan on the development of local manufal resources, specially organic manufes.

An important gap in the agricultural programmes undertoken during the First and Second Plans has been in the field of improved agricultural implements Progress in the introduction of improved agricultural implements ealls for steps in a number of directions. The more important directions in which action has to be taken by the concerned agencies relate to

- (1) adequate supply of iron and steel of the categories required for agricultural implements.
- (ii) establishment of research, testing and training centres for improved agricultural implements in every State;
- (iii) suitable extension arrangements by State Governments at district and block levels for demonstrating and popularising improved agricultural implements;
- (iv) strengthening of agricultural engineering sections of State Agricultural Departments; and
- (v) assured arrangements for credit for supply of improved implements and establishment of agricultural workshops at all the extension training centres.

ESTIMATES OF PRODUCTION

8 The following estimates of the likely production by the end of the Third Plan have been worked out in relation to the various development programmes which are to be implemented;

Estimates of production in the Third Plan

commodity	unit	base level produc- tion 1960-61	target of addition: production 1961-66		percen- lage in- crease		
foodgrains	million tons	76 O	24 0	100 D	31 6		
oilseeds	million tons	7 t	2 7	9.8	38 6		
sugarcane (gur)	million tons	8 0	2 0	10 0	25 0		
cotton	million bales	5 1	19	7.0	37 2		
jute	million bates	40	2 2	6 2*	55 0		
coconut	million nuts	4,500	775	5,275	17 2		
arecanut	thousand tons	93	7	001	7.5		
cashew nut	thousand tons	73	77	150	105 5		
pepper	thousand tons	26	1	27	39		
cardamom	thousand lons	2 26	0 36	2 62	15 9		
lac	thousand tons	50	12	62	24 0		
tohacco	thousand ions	300	25	325	8 3		
tea	million lb	725	175	900	24 1		
coffee	thousand tons	48	32	80	67 7		
ınppeı	thousand tons	26 4	18 6	45	70 5		

These increases in production involve raising the yield per aere to a significant extent—about 27.5 per cent above the Second Plan average for rice, about 20 per cent for wheat, about 11 per cent for oilseeds, about 14 per cent for cotton, about 16 per cent for jute and 18 per cent for sugarcane. The greater part of these increases in yields will necessarily have to be secured in areas under irrigation and assured rainfall, but even in other areas, through soil conservation and dry farming, there should be some improvement in the average yield.

According to the estimates given above the index of agricultural production should rise from 135 in 1960-61 to 176 in 1965-66, the total increase being about 30 per cent over the five year period. Per capita availability of foodgrains is expected to rise from 16 ounces in 1960-61 to 17.5 ounces in 1960-66 and consumption of cloth from about 15.5 yards to 17.2 yards per year. Consumption of edible oils is expected to go up from 0.4 ounces to 0.5 ounces per day over the Third Plan period.

OTHER ASPECTS OF THE AGRICULTURAL PROGRAMME

9. In the Third Plan it is essential to intensify efforts for increasing the production of commercial crops, specially cotton, jute and oilseeds. Detailed programgies for these crops have been worked out by the various commodity committees. Adaptate finance and supplies of fertilities are to be made available for these crops and of plantation crops, specially iea, coffee and rubber. The Plan also provides for a series of related agricultural programmes such as production of fruit and vegetables and subsidiary foods.

^{*} Excludes missa which may provide an additional 13 million bales,

10 At present over 725 out of a total of 2,500 markets in the country are regulated. In the Third Plan, the remaining markets will be brought within the scheme of regulation, and the number of reporting centres under the market intelligence service, which now covers about 500 markets, will be considerably extended.

The total storage capacity at the disposal of Government is to be raised from about 2.5 million tons at present, of which about a third is sowned by Government, to about 5 million tons, of which about 3.5 million tons will be owned by Government. Storage capacity with the warehousing corporations will be increased from about 350,000 tons to over 16 million tons and the capacity of the godowns of cooperative societies from about 800,000 tons to about 2 million

- 11 The number of agricultural colleges is to be increased from 53 to 57 and the annual intake from 5,600 to 6,200. Proposals for setting up agricultural universities on the lines of the university already established in Uttar Pradesh are under examination. The programme of agnetitural research includes strengthening of research organisations in the States, development of research on a regional basis, establishment of new institutes for soil science and pedology, research in forage and grasislands, virus research and the intensive study of irrigation practices and problems connected with the use of fertilisers in irrigated areas. Proposals relating to the strengthening of agricultural administration in the States need to be implemented as a matter of first priority. It is also proposed to set up one and possibly two more State mechanised farms on the lines of the State Farm at Suratearch.
- 12. The assurance of minimum remunerative prices for important cereals and eash crops like cotton, oilseeds and jute over the period of the Plan will provide the necessary incentive for increasing production, thus adding to the effectiveness of the various development programmes provided for in the Third Plan. With this object in view, decisions regarding the prices at which Government should buy and sell should be taken sufficiently in advance of the sowing season.

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ANIMAL HUSBANDRY, DAIRYING AND FISHERIES

The urgent need for expanding the production of supplementary and subsidiary foods, especially proteins, greatly enhances the importance of programmes for the development of animal busbandry, dairying and fisheries during the Third The Year Plan.

AGRICULTURE AND RURAL ECONOMY

ANIMAL HUSBANDRY

- 2. Development of animal husbandry is envisaged as an integral part of a sound system of diversified agriculture. Emphasis will be aliad on mixed farming for better utilisation of farm bye-products, maintenance of soil fertility, fuller employment for agriculturists throughout the year and increase in rural incomes. The Third Plan provides Rs. 54 crores for the development of animal busbandry compared to about Rs 21 crores in the Second.
- 3. India has a large livestock population but their productivity is generally low. Thus, the average mulk yield per lactation of cows is about 400 lb and that of buffaloes about 1,100 lb, as compared to 5,000 lb or more in advanced countries. The total milk production, which is at present reckoned at about 22 million tons, which go up to about 25 million tons by the end of the Plan The basic policy is to evolve and develop 'dual purpose' breeds which will provide both good buffocks for efficient cultivation and increased yields of milk for human consumption.
- 4. In the first two Plans, the key village scheme has been the main programme for intensive cattle development. The scheme bas been recently reviewed carefully. It is proposed to intensify the castration programme in key village areas, expand facilities for the rearing of bull-calves, and give special attention to better use of the evising fodder resources and to the cultivation of fodder crops on marginal and sub-marginal lands. It is also proposed as an experimental measure to undertake cross-breeding with exotic breeds in regions of high altitude with heavy rainfall and to set up a farm with a nucleus herd of jersey animals. The progeny testing scheme is to be introduced progressively for all important breeds.
- 5. In the main breeding tracts, breeding societies are to be encouraged. These will provide for registration of cattle and recording of milk yields and will serve as a source of supply of breeding bulls required for other areas. To meet the shortage of breeding bulls, in addition to extension of artificial insemnation, it is proposed to set up 11 bull rearing farms in the breeding tracts, subsidies the rearing of about 30,000 bull-calves, expand the herds at 33 existing Government eattle breeding farms and establish a number of new livestock farms.
- 6 The seriousness of the problem of surplus and uneconomic cattle is widely recognised, although estimates of the numbers of such cattle vary. Large numbers lead to poor feeding and poor feeding comes in the way of attempts to raise productivity. Weeding of

inferior stock is a necessary complement to a programme of cattle improvement and systematic breeding. It is proposed to set up 23 more gosadans in addition to the 59 already established; but this programme presents real difficulties, of which the most important is the non-availability of suitable sites in the interior of forest areas where the necessary grazing facilities are available. With a view to elimination of scrub male stock, it is proposed to undertake a large-seale programmes have been taken up and extended later to other areas.

- 7 By the end of the Third Plan there will be 8,000 veterinary hospitals and dispensaries. The entire bovine population of the country will be vaccinated against rindernest by 1963-64.
- 8. Among other programmes to be undertaken are the establishment of two regional pig breeding-cum-bacon factories, 12 piggery units and 140 piggery development blocks. An equine breeding farm with 10 stud centres will be established. The setting up of a national stud, cooperative breeding schemes, and private studs are under consideration. To improve the quality of wool and develop the local sheep breeds, it is proposed to establish 15 sheep breeding farms and to expand 17 existing farms. As a result of the various measures to be adopted, it is expected that the present production of 72 million lb of wool will go up to 90 million lb, by the end of the Third Plan. The programme for the development of poultry includes the expansion of 60 State poultry farms, three regional poultry farms and 50 extension-cum-development centres.
- 9 It is proposed to uodertake a large-scale programme for the better collection of fallen hides and for improved flaying. This involves timely recovery of carcasses and full utilisation of bye-products, tanning of hides and skins by improved methods, and the provision of adequate training facilities at selected centres. It is proposed to set up one large and 14 small hide-flaying, curing and carcass utilisation centres, two mobile bone crushing units and a regional training centre in hide flaying, curing and carcass utilisation.
- 10 The Central Council of Govarnmenthana was reorganised in 1960 The Council has been assigned a special role in coordinating activities relating to the preservation and development of cattle, specially the cow and, amongst other activities, will arrange for training centres for goshala and charamalaya workers. In the Third Plan it is proposed to assist 168 goshalas to develop as cattle breeding-cummil production units.

16. The National Dairy Research Institute, Karnal, will be expanded during the Third Pian. Training facilities for the Indian Dairy Diploma at Bangalore, Allahabad, Anand and Aarey and for B Sc. (Dairying) at Karnal will be expanded. A Dairy Science College will be established at Anand in Gujarat.

Fisiteries

- 17. The acquatic resources of Indian waters are varied and shundant. Fishing and albed industries provide employment for about a milhon fishermen, most of whom live on the verge of poverty. The main objective in drawing up fisheries schemes for the Third Plan bas been increased production, and the need to improve the economic condition of fishermen has been kept in view. Emphasis has also been placed on the development of export trade.
- 18 Large-scale expansion of inland fisheries has now become possible in view of the technique of induced breeding by hormone treatment which has been successfully developed on Indian earps. This is a major development which will enable spawn and fry to be bred in any part of the country undependently of the naturally spawning areas. Another important development has been the introduction of the 'common earp' from South-East Asia which is a useful addition. About 50,000 acres of water in different States will be used as demonstration fish farms. It is proposed to stock 1,200 million fry and fingerlings. Regular stocking will also be done in river valley projects which offer considerable scope for fishery development. Panchayat Samitis and Panchayats should undertake the development of fish ponds and other inland waters as a vital local resource.
- 19 The formation and running of fisheries cooperatives is an important aspect of fisheries development during the Third Plan. There are at present about 2,100 fisheries cooperatives with a total timembership of about 220,000. Fisheries cooperatives function with varying degrees of success and only about 800 of them can be said to show satisfactory performance. Revitalisation of the causting fisheries cooperatives and their further development and linking up with marketing and processing cooperatives is an important task to be earried out in the Third Plan. A detailed programme for this purpose is proposed to be worked out.
- 20. About two-thirds of the country's estimated fish production comes from the sea. In the Third Plan it is proposed to introduce 4,000 new mechanised crafts The exploratory fishing programmes of the existing four Central Deep Sea Tishing Stations will be expanded and additional units will be established It is also proposed to operate to.

- 2. During the First and the Second Plans, new plantations of matchwood extending over an area of about 55,000 acres and of industnal tumber over an area of about 330,000 acres were undertaken. Survey and demarcation was undertaken over about 18,000 square miles, 9,000 miles of forest roads were developed and about 400,000 acres of degraded forests were rehabilitated. Improved methods of logging were also demonstrated.
- 3. In the Third Plan special emphasis will be put on measures which will help meet the long-term requirements of the country and also ensure more economic and efficient utilisation of the available forest products, including inferior tumber and various wood residues and pulp material in the near future. The immediate objective is to increase the output through better techniques of timber extraction, to develop forest communications and to bring about better utilisation through the increased use of preservation and seasooing processes. The Plan provides an outlay of Rs. 51 crores for various development programmes.
- 4 A large-seale programme of new plantations is essential for meeting the increasing requirements of industry. These plantations should comprise not only the traditional species of tunber with long periods of maturity but also fast growing species with a comparatively short rotation. In the Third Five Year Plan the programme for new plantations will cover about 700,000 acres including teak, matchwood, bamboo, wattle, casutina, etc. An additional programme for planting 300,000 acres with fast growing species of industrial wood is also proposed to be taken tip.
- 5. It is estimated that an area of over 1.2 million acres will come under farm forestry during the Third Plan. Panchayat Samitis and Panchayats should be assisted to take up this programme on a large scale, and Forest Departments should ensure that seeds and saplings are available in each area. Programmes for planting trees along national and State highways, canal banks and railway tracks should also be intensified.
- 6 Improved logging tools can help reduce wastages and increase the utilisation of wood. The staff of Forest Departments in several States have been trained in their use. Work on improved implements is also being undertaken at the Forest Research Institute, Dehra Dun. Some of the rich forests at higher elevations in the Himalayas remain untappred or are only partially exploited. This is mainly due to their inaccessibility. To ensure better utilisation the Plan provides for the development of about 15,000 miles of forest roads, and for the linking up of forest roads with trunk roads and river landings.

- 7. Secondary species of timber can be used as a substitute for the scene primary timber after proper seasoning and treatment. The Plan provides for the setting up of about 27 seasoning and 3 seasoning-cumpreservation plants. It is important that high grade timber should be reserved for uses which are valuable and for which adequate substitutes are not available.
- Survey and demarcation work is proposed to be taken up over an area of about 43,000 square miles. Rehabilitation work on such areas as were surveyed and demarcated previously will be extended to about 600,000 acres.
- 9. A project for a comptehensive pre-investment survey of forest resources and industries has been included in the Third Plan. The main object of this survey is to facilitate the formulation of the long-term programme for planting quick growing species, for opening up forest regions in the interior and for assessing the economic prospects of forest-based industries. The pre-investment survey will also take into account the requirements of different industries over the next 15 years or more. The survey is intended to be followed up by detailed programmes for the improvement of transport facilities, setting up of integrated wood utilisation units of saw milling, board manufacture, etc. Messures taken in the light of the survey should assist in filling the gap between the availability of timber and other forest products of economic value and the demand for these products.
- 10. Three regional research stations will be established to supplement the work done at the Forest Research Institute, Dehra Dun. Extensive studies will be made at these centres on the strength, durability and economic use of the various species of wood, Investigations will also be made on factors affecting the yield of valuable products, such as sandal, agar, etc. Experiments will be conducted on the utilisation and raising of various kinds of canes and bamboos which can be put to diverse uses.
- 11. It is estimated that 480 officers and 1,520 rangers will have to be trained for the different State Forest Departments. The rate of admission in the existing institutes at Dehra Dun and Coimbatore will be raised accordingly. The States will provide facilities for training 10,000 field personnel such as Foresters and Forest Guards.
- 12. Nature conservation is an important aspect of forest development and includes the protection and proper management of indigenous flora and fauna. The Plan includes a programme for the development and establishment of 5 zoological parks, 5 national parks and 10 wild

life sanctuaries. The Delhi Zoological Park is also to be developed further.

- 13. It is proposed to organise forest labourers into forest labour cooperative societies and give these societies suitable concessions. Provisions have also been made in the State plans to offer facilities for housing, medical aid, water supply and primary education to these classes.
- 14. Public cooperation has a vital role in forest development. Whether trees are planted by people or by government agencies, their care and protection can only be secured if the people as a whole are conscious of the value of trees and endeavour to preserve them. Village luel plantations are important community assets and village communities should be helped to create them for themselves and, progressively, greater responsibility for managing forests should be placed on Panchayat Samuts and Panchayatt.

SOIL CONSERVATION

15 It has been estimated that about 200 million acres of land suffer at present from soil erosion Effective steps need to be taken to plan and undertake soil and moisture conservation measures on a large scale

16 Contour bunding and terracing of about 700,000 acres of agricultural lands was undertaken during the First Plan. Eight regional research-um-demonstration centres were established to study the problems of soil and water conservation. In addition, the Desert Afforestation and Research Station was set up at Jodhpur to undertake the study of desert problems, In the Second Plan, contour bunding and terracing made good progress and the target of 2 million acres has been achieved. An integrated all-India soil conservation and land use survey was also initiated and about 12 million acres have been surveyed, of which about 2 million acres were in the catchment areas. With a view to popularising dry larming techniques, 40 projects for giving demonstration on catchment basin during the last two years of the Second Plan were sanctioned. Work has already begun on some of these projects and will be lurther extended during the Third Plan. Research work carried out at the various research rentres has yielded valuable practical results. Techniques were developed to stabilise the moving sand dunes and about 1,800 acres were stabilised. The Desert Afforestation and Research Station at Jodhpur was reorganised as a Central Arid Zone Research Institute in collaboration with UNESCO. A scheme for pasture development was started in Rajasthan and about 50 paddocks in 18 extension blocks have been developed so far.

- 17. For the development of agricultural resources, it is necessary that large-scale soil conservation and dry farming programmes should be taken up on the basis of mass participation by rural communities. In the Third Plan, about 11 million acres of agricultural lands will be covered by contour bunding and about 22 million acres will be benefited under dry farming techniques.
- 18 Soil conservation measures in the catchment areas of major river valley projects are considered very urgent on account of the large investments made on them. About 15 million acres need to be treated eventually with soil conservation measures. During the Second Plan about 140,000 acres were covered under these measures. Ao allocation of Rs. 11 crores has been made in the Third Plan for extending this programme to another million acres
- 19. A potent cause of deterioration of irrigated lands is the risc lo sub-soil water level and the development of saline (usar) and alkaline soils. The damage to soil is likely to increase with the increasing use of irrigation. Provision for drainage in areas affected by waterlogging is therefore essential. A target of about 200,000 acres has been proposed during the Third Plan for reclaiming waterlogged, saline and alkalibe lands.
- 20. It is proposed to undertake survey and preparation of topographical maps of the ravine areas which would facilitate the formulation and execution of reclamation projects. During the Third Plan 40,000 acres of ravine land will be reclaimed in the affected States.
- 21. The Central Arid Zone Research Institute has taken up research for tackling the desert areas and various related problems. A pilot project is also proposed to be undertaken to study the methods of reclaiming desert lands. It is proposed to bring about one lakh acres of desert areas under suitable soil conservation measures including afforestation and pasture development in the different States.
- 22. Hilly areas, denuded forests and waste lands pose a serious problem. Soil erosion taking place in these areas has an adverse effect on agriculture in the hills and in the plants. Overgrazing, shifting cultivation and indiscriminate felling of trees have led to this situation. To control soil erosion and to restore productivity, for normal utilisation, afforestation and pasture development will be extended to about 700,000 acres covering filly areas, denuded forests and waste hands.
- 23. During the Third Plan it is proposed to survey an area of over 15 million acres, most of which lies in the eatchment areas of river valley projects. The regional research-cum-demonstration centres set up

by the Central Soil Conservation Board at Dehra Dun, Chandigarh, Kotah, Vasad, Agra, Bellary, Ootacamund, Chhatra and Jodhpur would be strengthened to study the regional soil erosion problems. Two more centres, one each in Orissa and Andhra Pradesh, for studying the problems of red soil areas will be set up. The Central Arid Zone Research Institute will undertake research on fundamental and applied problems of the arid zones. To stabilise the drifting sands of the desert, a pasture development scheme is also in progress.

The additional requirements of personnel during the Third Plan are estimated at about 350 officers, 1,700 assistants and 9,000 sub-assistants. Consistent with these requirements, the existing facilities for training are being suitably expanded.

- 24 In view of the great importance of soil conservation in river valley projects where costly projects have been executed, and in dry areas, it would be neessary to establish in each State a soil conservation organisation, which may be a department or a wing of an existing department, according to its requirements, with responsibility for initiating planning and executing soil conservation programmet. Coordination between the various departments concerned should be ensured
- 25 In the execution of the soil conservation programmes, such as contour bunding and dry farming, the arm should be to have, on as large a scale as possible, the participation of the people by encouraging owners and users of land to take up such measures to the extent possible on a voluntary basis Mobilisation of local leadership for securing adequate and timely public participation will go a long way in speeding up the soil and water conservation programme.
- 26 The introduction of suitable legislation empowering State Governments to frame soil conservation schemes for the basin of a river or a stream of for groups of villages has been recommended. If a work is not carried out by the beneficiaries concerned it may be carried out by the Government or on its behalf by the Panchayat Samiti in the block and the cost recovered from them. Legislation on these lines already exists in some of the States and other States are proposing to undertake similar legislation.

IV

COMMUNITY DEVELOPMENT

The community development programme now serves over 3,100 development blocks comprising 370,000 villages. Of these about 880 blocks have completed more than five years and entered the second stage of the community development programme. By October, 1963,

the programme will extend over the entire rural area of the country. The total outlay on community development in the first two Plans has been about Rs. 240 erores. The Third Plan provides for a total outlay of Rs. 294 erores, in addition to about Rs. 28 erores for Panchayats.

In the course of the Second Plan, three important developments occurred in the community development programme. These were (1) merging of the former national extension and community development patterns into a single scheme of community development, (2) introduction of Panchayati Raj, and (3) treatment of the block as the unit of planning and development.

- 2. Within the general framework of the district plan, the block plan is intended to include all social and economic activities undertaken within the block which, call for (a) planning initiated locally at the block and village levels, and (b) coordination with the plans of various Departments which are implemented within the block. The following are the principal types of activities which will fall within the block plan;
 - (i) items in the schematic budget of the community development block according to the stage reached;
 - (ii) items included in the budgets of different Departments which can be executed through the block organisation;
 - (iii) works undertaken by the local community or beneficiaries in accordance with the obligations laid down by law:
 - (iv) works involving unskilled and semi-skilled labour undertaken in the block; and
 - (v) other activities undertaken in the block or by the block organisation with a view to securing greater contribution from local communities in respect of development schemes in different fields.
- 3. The basic problem in the rebuilding of the rural economy at present is the organisation of the agricultural effort at the village level. The Third Plan envisages formidable tasks in the fields of Agriculture and Cooperation. In the measure in which progress is achieved in mobilising the village community for increasing production, every other problem in the rural areas becomes easier of solution and more intensive development can be undertaken in other directions, especially rural industry and provision of social services. The growth of agricultural production is of such critical importance that in the immediate context of the Third Plan, the principal test to be met by the community development movement must be its practical effectiveness as an agricultural

extension agency It is, therefore, essential for the community development organisation to take all steps necessary to strengthen itself in this respect, and to accept responsibility for achieving the targets of agricultural production on the basis of the largest possible local effort. At the same time, it is incumbent on the Agricultural Departments and other Departments concerned with agricultural production that they must place at the disposal of the community development organisation at the distinct and block levels the necessary expert supervision and guidance and the supplies, trained manpower and the other resources needed.

4 The principal means for involving all cultivators in the village in the agricultural effort and mobilising effectively the resources of the local community is the village production plan. In the field of extension, the most unportant task to be undertaken in pursuance of the Thrid Plan is to give effect to the idea of working out village production plans which have not yet been established as a formal method of work in agricultural development. The village production plan includes two main groups of programmes, manely, (a) supply of credit, fertilisers, improved seeds, assistance for plant protection, minor irrigation, etc., for which a measure of assistance has to come from outside the village, and (b) programmes such as the digging of field channels for utilising irrigation from large projects, maintenance of bunds and field channels, contour bunding, digging and maintenance of village funds, development and utilisation of local manuful resources, village fuel plantations, etc., which call for effort on the part of the village community or the beneficiaries. The enthusiasts and cooperation from the village community or the beneficiaries. The enthusiasts and cooperation from the village community of the technical advice given by extension workers. The Third Plan already provides for the various elements required for the successful execution of the vullage production plans.

PANCHAYATI RAT

5 The significance of Panchayait Raj lies in the fact that subject to guidance and supervision by the State Government, responsibility for the implementation of rural development programmes will now belong to the Block Panchayait Samiti working with Panchayaits in the sillages and Zila Parishads at the distinct level. The primary object of Panchayait Raj is to enable the people of each area to achieve intensive and continuous development in the interest of the entire population. The elected representatives should be encouraged to value the development of Panchayait Raj as offering new avenues of service to

the people rather than opportunity for the exercise of authority. Panchayati Raj comprehends both the democratic institutions and the extension services through which development programmes are executed. Extension personnel at the block and village levels, although functioning within the jurisdiction of the Panchayat Samiti, form part of a larger administrative and technical network which extends to the district and even beyond it. It is vital to the permanent success of Panchayati Rai that the integrity of the structure of technical and administrative services provided by Government and their ability to fulfil the duties and responsibilities cast upon them should be fully ensured, while their knowledge and experience are made available to the elected bodies at the district and block levels. The distinct role of federal cooperative organisations functioning at the State and district levels, as in the field of banking, marketing, processing, distribution, and education and training should be clearly recognised, and cooperatives should be enabled to fulfil their obligations in accordance with the approach and principles of the cooperative movement

6. The following are among the main tests by which the success of Panchayati Raj will need to be measured from time to time;—

- agricultural production as the highest national priority during the Third Plan;
- development of rural industry;
- (3) development of cooperative institutions;
- (4) full utilisation of the local manpower and other resources;
- (5) development of facilities for education and adult literacy;
- (6) optimum utilisation of resources available to Panchayati Raj institutions, such as finance, personnel, technical assistance and other facilities from higher levels, and efforts by them to raise their own resources,
- (7) assistance to the economically weaker sections of the village community;
- (8) progressive dispersal of authority and initiative with special emphasis on the role of voluntary organisations;
- (9) understanding and harmony between elected representatives and public servants to be achieved through comprehensive training in education and a clear demarcation of duties and responsibilities and progressive increase in comprehence both among officials and non-officials;

COOPERATION

COOPERATION AND PLANNED DEVELOPMENT

In a planned economy pledged to the values of socialism and democracy, cooperation should become progressively the principal basis of organisation in many branches of economic life, notably in agriculture and minor irrigation, small industry and processing, marketing, distribution, supplies, rural electrification, housing and construction, and the provision of essential amenties for local communities. Even in medium and large industries and in transport, an increasing range of activities can be undertaken on cooperative lines. Thus, a rapidly growing cooperative sector, with special emphasis on the needs of the peasant, the worker and the consumer, becomes a vital factor for social stability, for expansion of employment opportunities and for rapid economic development.

- 2 Economic development and social change are equally vital elements in the reconstruction of India's social and economic structure. Cooperation is one of the principal means for bringing about changes of a fundamental nature within the economy. As was stated in the Sacond Plan, in a country whose economic structure has its roots in the village, ecoperation is something more than a series of activities organised on cooperative lines, basically, its purpose is to evolve a cheme of cooperative community organisation which touches upon all aspects of life. Within the tural economy, in particular, cooperation is the primary means for resing the facel of productivity, extending improvements in technology and expanding employment so as to secure the basic necessities for every member of the community.
 - 3 At the level of the village, cooperation implies the development of land and other resources and various services in the common interest of the village as a whole and a continuing obligation on the part of the village community lowards all its members. It is visualised that as part of a larger cooperative rural economy, the broad aim of policy should be to develop the village as the primary unit of organisation in agriculture and in many other economic and social activities which bear closely on the welfage of the rural population. At the same time, attisants and others, according to their community of interest, will enter into cooperative associations which seek to serve their special needs. Programmes for land reform and for village and small industries, development of panchayats and the fundamental emphasis in community development of panchayats and the fundamental emphasis in community development of panchayats and the fundamental emphasis in community development of new forces of the comparison of the community, all point in these directions in due course, as the agricultural base is strengthened and efforts to diversity the occupational structure.

of rural areas are intensified, an increasing number of cooperative activities will call for organisation for larger areas. Once the processes of social and economic change gather force and the rural community attains higher levels of skill and productivity, cooperation has to meet larger and more complex demands. Diverse forms of cooperative organisations will continue to develop in tune with new needs and possibilities.

4. For the development of cooperation, the Third Plan provides Rs. 80 crores as against the anticipated outlay of Rs. 34 crores in the Second Plan.

COOPERATIVE CREDIT

- 5. It has been agreed by the National Development Council after considering the proposals of the Committee on Cooperative Credit that while, as a general rule, cooperatives should be organised on the wine, as a general rule, cooperatives should be organised on the basis of the village community as a primary unit, where villages are too small, the number of villages to be served by a cooperative society may be increased in the interest of viability. The aim should be to ensure viability with the inclusion of the smallest number of villages necessary, so that cooperative societies achieve both wability and the essential characteristic of cooperation, namely, voluntary basis, close contact, social cohesion and mutual obligation. However, such extension should be subject to certain maximum limits, namely, a population of 3,000 (i.e. 600 families or about 500 cultivators) families) at a distance of not more than 3 or 4 miles from the headcaumies) at a distance or not more than 3 or 4 miles from the nead-quarters village. While a population of 3,000 might ordinarily be to-high for a primary village society, it is desirable to avoid laying down unduly rigid rules on the subject of reorganisation and the size of co-operative societies. Within this broad framework, the cooperative societies should be allowed to develop on their own. In this scheme of organisation, provision is also made for State participation in the share capital under appropriate conditions. Outright contributions to the funds of primary societies and central banks have been proposed so as to enable cooperative societies to admit all classes of cultivators as members and to provide them with adequate credit on the basis of production requirements and repaying capacity. Management grants up to a maximum of Rs. 900 spread over a period of 3 to 5 years are also given to primary societies.
 - 6. Over the period of the first two Plans, the number of primary agricultural credit societies has risen from 1.05 lakhs to about 2.10 lakhs, their membership has gone up from 4.4 million to about 17 million and the loans advanced have risen from about Rs. 23 crores

cotton ginning and pressing plants, 36 rice mills, 29 jute balang plants, 33 oil mills, 63 groundant decorticators, 77 fruit canning units, 411 rice bullers, and 86 other units.

10. A twofold approach to the organisation of the processing units other than sugar factories is suggested in the Plan, Firstly, overall programmes regarding the number of units in each branch of industry should be formulated. Within this plan, the share of expansion to be assigned to the cooperative sector should be determined on broad considerations. To facilitate the working out of specific proposals, designs of plants, estimates of investment and working costs and other technical data should be made readily available. As in the case of cooperative sugar factories, arrangements for financing other types of processing units should be indicated. Against this background, concrete proposals could be invited from individuals and cooperatives in different areas. Given the necessary conditions, there is vast scope for development of cooperative processing not only in relation to new units but also, progressively, by way of reorganisation on cooperative lines of units which are at present privately owned. This latter aspect is important on wider considerations, both because it is the aim of public processing interesting a private to a cooperative basis, and because in many of these industries there is at present either excess capacity or only limited scope for adding to existing capacity.

COOPERATIVE FARMING

11. The role of cooperative farming in the reconstruction of the rural economy was stressed both in the First and in the Second Plan. The goal indicated in the Second Plan was that such essential steps were to be taken as would provide sound foundations for the development of cooperative farming, so that over a period of ten years or so, a substantial proportion of the agricultural lands were cultivated on cooperative lines. With the growth of population and the need to secure rapid increases in agricultural production and rural employment, it is essential to intensify efforts to develop cooperative farming throughout the country and to realise as speeddy as possible the objectives set in the Second Plan. In the mam, cooperative farming has to grow out of the success of the general agricultural effort through the community development movement, the progress of cooperation in credit, marketing, distribution and processing, the growth of rural industry, and the fulfilment of the objectives of land reform. The contribution of cooperative farming to rural progress will be significant in the measure in which it develops as a voluntary mass movement under genuine local

leadyship and as a logical growth of community development and cooperation at the village fevel. Given the approach of community development and the acceptance by the village community of its responsibility for the welfare of all of its members, the main problems of cooperative farming are organisational, technical and educational.

- 12 The broad principles governing the organisation of cooperative farming societies and the assistance to be given to them were agreed to by the National Development Council in September, 1960, on the basis of recommendations of the Working Group on Cooperative Farming. In the general pattern of organisation proposed for the development of cooperative farming, stress is laid on the principle that cooperative farming is a voluntary movement and there should be no question of compelling any cultivator to join a cooperative farming society. The pattern also indicates the approach to such questions as the size of cooperative farms, the basis of State participation in pilot projects, and other organisational and economic aspects of the cooperative farming scheme. It is proposed to set up 3,200 cooperative farming societies as pilot projects, roughly 10 in each district. This will constitute the first phase in the development programme of cooperative farming. As the Plan proceeds, in the light of practical experience in the pilot areas and elsewhere, it is hoped to formulate more comprehensive programmes for promoting cooperative farming. With greater progress in the development of cooperative farming there should be no difficulty in making available such additional resources as are required for supporting the effort.
- 13 A National Cooperative Farming Advisory Board has been constituted to provide general guidance in the development of cooperative farming

CONSUMER COOPERATIVES

14 In 1959-60, there were 2,168 primary stores with a membership of about 1.4 million and with a total paid up capital of Rs. 2.4
crores. Of these stores, less than a tird were running at profit. Programmes for the Third Plan provide tentatively for assisting 50 wholesale stores and 2,200 primary consumer stores. These targets will, however, need further consideration in the light of the recent report of the
Committee on Consumer Cooperatives, Consumer stores will be of the
greatest help not only in the stabilisation of retail prices but also in
precenting the evils of adulteration in food stuffs.

INDUSTRIAL COOPERATIVES

15 Industrial cooperatives have a large role both in the development of the rural economy and, more generally, in building up the

decentralised sector of industry. Industrial cooperatives have had a considerable measure of success in the handloom industry, in ooir and in certain village industries. A number of concessions and facilities have been offered over the past year or two which should stimulate the growth of industrial cooperatives as a normal pattern of organisation. Effective use should be made of them for building up industrial cooperatives in this direction need to be further intensified during the Third Plan.

LABOUR AND CONSTRUCTION COOPERATIVES

- 16 Labour cooperatives are required to play a major part during the Third Plan in undertaking construction works along with the voluntary organisations.
- Labour and construction cooperatives and voluntary organisations can be entrusted with advantage with earth works of all types and simple masonry works relating to trigation and flood protection schemes, simple Government buildings such as hostels, school buildings and supply in bulk of quantities of building materials such as stones, sand, etc. To enable genune labour cooperatives and voluntary organisations to undertake such works, certain essential administrative conditions have to be fulfilled. These are indicated in the Plan which suggests that the aim should be to build up labour cooperatives and voluntary organisations as important instruments for undertaking development and providing employment through works carried out mainly on behalf of Government Departments, Panchayat Samiis and Prachayats. Once such organisations come into existence, new possibilities for enlarging their scope and extending their benefits to the community will emerge.

HOUSING COOPERATIVES

17. The village housing scheme provides for the setting up of housing cooperatives in selected villages and for the production of bricks, doors, windows and other components. Similarly, under the low income group housing scheme as well as other schemes which are being undertaken in the towns, cooperatives are either allotted land on favourable terms or assisted in acquisition of private lands. These various provisions need to be used purposefully and as a matter of sustanced policy so that, in towns and villages alike, an appreciable impact can be made on the improvement of housing and living conditions.

OTHER NON-CREDIT COOPERATIVES

18. In addition to the various types of cooperatives discussed above, reference may be made to sugarcane supply societies, milk supply societies, fisheries societies, etc., which accounted for a membership of

2.34 million, 233,000 and 220,000 in 1959-60. Sixteen cold storages were also established by the end of Second Plan and 33 more will be set up in the Third Plan. The Third Plan includes large programme for fisheres development and dairying These are fields of great promise for the development of cooperative activity. Transport cooperatrues should also be encouraged as a means of providing new opportunities for educated unemployed persons. The lines along which procedures and legislation relating to cooperation should be adapted to meet the special conditions and requirements of tribal areas, where there is considerable scope for building up cooperatives, specially for working forest areas and developing the traditional erafts, are being considered by a committee set up by the Central Government. The principle of cooperation can be extended to a growing range of new activities in urban and rural areas.

COOPERATIVE TRAINING AND ADMINISTRATION

19 For the Third Plan, programmes drawn up by the States envisage, amongst other steps, the addition of 13 schools for training junior cooperative personnel and the continuance of the scheme for the education. cooperative personnel and the continuance of the seneme for the edu-cation of members of cooperative Societies, through peripatetic parities. The Study Team on Cooperative Training which has recently submitted its proposals contemplates increase in the number of centres for training intermediate and juntor personnel to 15 and 120 respectively. These and other recommendations of the Team are at present under consideration

Steps have been taken during the Second Plan to strengthen the State Cooperative Departments Provision for this purpose has also been made in the Third Plan.

oven made in the Linto Plan.

20 In planning and earrying out intensive development in rural
areas, Panchayati Raj institutions and cooperative organisations have
a complementary role and must cooperate closely at every step. Zila
Parshads, Panchayat Samitts and Village Panchayats should promote
the development of cooperatives and should enuleavour to create a climate of community effort and social responsibility such as are vital chmate of community effort and social responsibility such as are vital for the successful functioning of cooperatives at all levels. Regulatory powers in relation to cooperative organisations may continue to remain with the Government, but some of them can be delegated progressively to federal cooperative organisations. These will help to build up the self-regulatory character of the movement and to promote local leadership

Cooperation is a people's movement and initiative for cooperative development and responsibility for regulating the working of the movement should progressively devolve on cooperative institutions and their higher federal organisations. The building up of efficient federal organisations in all sectors of cooperative activity assumes great importance in this context. As these organisations grow in strength, more powers may be transferred to them and the departmental machinery may limit is activities to the minimum statutory duties of registration, audit, arbitration and inspection. Promotional work relating to cooperation, cooperative training, education and publicity are activities falling within the special province of cooperative unions. Cooperative unions at State and district levels should be strengthened and enabled to undertake these responsibilities, and a strong federal structure should be built up from the ground.

Vl

LAND REFORM

OBJECTIVES FOR THE THIRD PLAN

Land reform programmes, which were given a place of special significance both in the First and in the Second Plan, have two special objects. The first is to remove such impediments to increase in agricultural production as arise from the agrarian structure inherited from the past. This should help to create conditions for cvolving as speedily as possible an agricultural economy with high levels of efficiency and roductivity. The second object is to eliminate all elements of exploitation and social injustice within the agrarian system, to provide security for the tiller of soil and assure equality of status and opportunity to all sections of the rural population.

- 2. The principal measures for securing these objectives were (1) abolition of intermediary tenures, (ii) reform of tenancy, including regulation and reduction of rent, security of tenure and finally confernent of right of ownership on tenants, and (ii) ceilings on land holdings. It was realised that with the existing pattern of distribution of langitudinary of the predominance of small farms, redistribution of land in excess of any given level of ceiling was not likely to make available a large area of surplus land for distribution. It was considered, however, that such reduction in dispartities was a necessary condition for building up a progressive cooperative rural economy. In the scheme of land should be stressed that the principles on which the scheme of land interests of different sections of the population which depend on land, but are part of a wider social and economic outlook which has to be applied in some measure to every part of the economy.
 - 3. With the enactment of legislation in one State after another, there has been greater understanding of the need for land reform and the purposes it is intended to achieve. For several reasons, the impact

ment in the economic conditions of tenants. As suggested in the Second Plan, it could also be desirable to provide for commutation of produce rents into cash rents. This would be facultated if, with due regard to conditions of each district, rents could be declared as a multiple of the prevailing land revenue assessments.

- 6. Security of tenure.—Legislation providing for security of tenure has been enacted in eleven States and for all the Union Territories. In four States Balls are before the legislature and will be enacted in the near future. Pending legislation, ejectment of tenants has been stayed. Legislation for security of tenure has three resential aims—firstly, that ejectments do not take place except in accordance with the provisions of the law, secondly, that land may be resumed by an owner, if at all, for 'personal cultivation' only, and thirdly, that in the event of resumption the tenant is assured of a prescribed minimum area.
 - 7. During the past few years, in a number of States, ejectment of tenants has taken place on a considerable scale under the plea of 'voluntary surrenders'. Most voluntary surrenders of tenancies are open to doubt as bona fide transactions. Lack of proper definition of the expression 'personal cultivation' has also led to difficulties in giving effect to the legislation for the protection of tenants. On the whole both legislation and administrative action have fallen short whole both legislation and administrative action have fallen short taken to remove the legal and administrative deficiencies relating to the taken to remove the legal and administrative deficiencies relating to the registration of voluntary surrenders and resumption of lands arising from them. State Governments should also review their current definitions of personal cultivation and modify them to the extent necessary.
 - 8. Detailed suggestions were set out in the Second Plan for regulating resumption of tenancies on grounds of personal cultivation. Provisions in this respect have taken a variety of forms in different States. Experience of the working of these provisions leads to certain broad conclusions. The right to resume land creates uncertainty and lends to diminish the protection afforded by the legislation. Both in the First and Second Plans it was contemplated that it would not be ferst and Second Plans it was contemplated that it would not be necessary to allow resumption beyond a period of five years. It is necessary to allow resumption beyond a period of five years. It is considered that except for owners holding land equivalent to a family holding or less, in view of the period which has already elapsed, there should be no further right of resumption. Further, uncertainty for transits would not be in the interest of agricultural development. Small owners, that is owners with a family holding or less, deserve special consideration. They should be enabled to resume one-half of the area

held by the tenants but in no event less than a basic holding. Where a tenant is left without any land or with an area smaller than a basic holding, the Government should endeavour to find land for him to cultivate.

- 9 Provisions regarding resumption for personal cultivation could be misused if large and medium-sized owners were to act mala fide and transfer their lands to relatives and others and so come within the definition of small owners. It would be generally desirable to provide for regulation of such transfers as has been provided in Gujarat, Maharashtra and Kerala
- 10 Rights of on neardup for tenants.—In the Second Plan it was suggested that each State should have a programme for converting tenants of non-resumable areas into owners and putting an end to vestiges of the landlord-tenant relationship. It was urged that instead of an optional right to tenants to purchase lands cultivated by them, all tenants of non-resumable areas should be brought into direct relationship with the State. In the course of the Second Plan, some progress has been made in enacting legislation for providing ownership rights to tenants. It is recommended that in the course of the Third Plan, steps should be taken to complete the programme for conferring rights of ownership on the tenants of non-resumable lands.
- 11 The question arises whether rights of ownership should also be conferred upon tenants of small holders. This might be desirable in principle. However, in view of the large numbers of petty owners involved, a uniform approach might not be feasible. The problem should be studied by States in the light of their conditions with a view to determining the action called for m this direction.

CHILINGS ON AGRICULTURAL HOLDINGS

12 In the course of the Second Plan, there has been legislation for placing coilings on agricultural holdings in Andhra Pradesh, Assam, Gujarat, Kerala, Madhya Pradesh, Maharathira, Orissa, Pepsu area in the Punjab, Rajasthan, Uttar Pradesh and West Bengal and in the Union Territonex Legislation had been enacted earlier in Jammu and Kashmir and Himachal Prad-sh. Bills proposing eclings are at present before the State Legislatures in Bihar, Madras and Misore. In the Punjab, outside the area of the former Pepsu territors, the existing legislation permits the Government to utilise land in excess of the permissible area for the purpose of resettling tenants who have been ejected or may be ejected. With the completion of the legislation the essential task must be that of ensuring speedy and effective implementation.

- 13. Transfers.—In this context the most important issue for consideration is the provision regarding transfer of land on the part of landowers subject to ceiling. On the whole, it would be correct to say that in recent years, transfers of land have tended to defeat the aims of the legislation for ceilings and to reduce its impact on the rural economy. Since many of the transfers are apt to take place between members of a family, it has been suggested that ceilings hould apply invariably to the aggregate area held by a family rather than to individuals. However, in view of the fact that the ceilings legislation has been enacted already in most States, any attempt to remove deficiencies or weaknesses would have to fit into the pattern of the prevailing legislation. The question of transfers could perhaps be dealt with in the following manner:
 - (1) Where legislation does not contain a provision for disregarding traosfers, in view of the fact that transters have taken place on a considerable scale, a suitable date subsequent to which transfers are disregarded may be proposed, if necessary, through an amending Jegislation This date may be the date of the publication of the ceiling proposals or an earlier date as may be prescribed in view of the local conditions.
 - (2) In respect of transfers made after the specified date, a distinction may be made between (a) transfers among the members of a family, (b) benami transfers and other transfers which have not been made for valuable consideration and through a registered document, and (c) transfers made for valuable consideration through a registered document. Transfers coming under (a) and (b) can be disregarded. Transfers failing under (c) may need to be dealt with differently in view of the fact that the transferees may be small owners or landless persons who may have purchased some land. It may be necessary to protect such transferees, at any rate up to a prescribed limut, say, a family holding.
 - (3) There should be provision for a review of transfers by a competent authority on the lines suggested above.
- 14. Exemptions from ceilings.—The Second Plan envisaged exemption from ceilings for the following categories of farms:
 - (1) tea, coffee and rubber plantations;
 - (2) orchards where they constitute reasonably compact areas;

- (3) specialised farms engaged in cattle-breeding, dairying, wool-raising, etc.;
- (4) sugarcane farms operated by sugar factories; and
- (5) efficiently managed farms which consist of compact blocks, on which heavy investment or permanent structural improvements have been made and whose break-up is likely to lead to a fall in production

In the legislation which has been enacted in the States, plantations have invariably been exempted from ceding. There are provisions also in favour of specialised farms. There has been some measure of variation in the approach to sugarcane farms operated by sugar factories and to efficiently managed farms. The considerations urged in the Second Plan and the recommendations regarding the exemption from ceilings of efficiently managed farms and of sugarcane farms operated by sugar factories remain generally valid for the Third Plan and there are advantages in following the course proposed. On the other hand, where a State, because of practical difficulties or other reasons, wishes to adopt a different course, certain conditions should be assured. These are, firstly, that the integrity of the farms should be maintained and their level of efficiency ensured and, secondly, in the case of sugar factory farms, satisfactory and continuous supply of the raw material to the factory concerned should be secured

15 It is important that surplus lands available as a result of the ceiling legislation, along with waste lands and, where possible, lands available through Dhoodam, should be allotted with the least possible delay in accordance with systematic schemes of restitlement. In providing land, care should be taken to make available the necessary financial and technical assistance, so that those settled on the land may develop this standards of cultivation.

CONSULIDATION OF HOLDINGS

16 About 23 million acres had been convolidated by the end of 1950-60 and work was in hand over another 13 million acres. According to indications given by States, the total area likely to be taken up for convolidation in the Third Plan is about 30 million acres. Progress in the consolidation of holdings has been recorded mainly in Punjab, Ultar Pradesh, Maharashtra, Gujarat and Madhya Pradesh. In other States there has been comparatively little advance during the Second Plan. It is proposed to study more closely how best the factors which come in the way of extension of the consolidation programme in the southern and eastern parts of the country can

be overcome and what changes and adaptations in the present methods and system of consolidation are called for in these areas.

LAND MANAGEMENT LEGISLATION

17. The place to he assigned to land management legislation and the manner in which it should be applied need to be considered in the light of developments during the first two Plans. Legislation regarding land management has been caracted only in two States and in one Union Territory and even in these it bas not been actually implemented. However, a large number of enactments exist in the States for certain specific agricultural pu poses such as utilisation of waste lands, adoption of improved seeds, control of pests and diseases, etc. This legislation needs to be reviewed in relation to the present development programmes for agriculture and the extension services which have been brought into existence in the community development blocks. The question of enforcement of legislative sanctions and of the role of Panchayats and Panchayat Samitis has to be studied further in the light of the expenence gained in the working of the existing enactments.

PROBLEMS OF IMPLEMENTATION

- 18. Problems arising in the implementation of land reform legislation enacted in the States have been studied by the Panel on Land Reform. The Panel has laid particular stress on the preparation of correct and up-to-date records of rights and the need to strengthen the revenue administration. Records of rights are heing brought up-to-date in several areas. In some of them there is need for a more to-date in several areas. In some of them there is need for a more to-date in several areas. In some of them there is need for a more to-dates in regard to own. In several States records of rights do not provide information regarding tenants, sub-tenants and crop sharers and as such implementation of the legislation itself suffers. Expenditure in regard to cadastral surveys and in the preparation and correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been included in the plans of some correction of records of rights has been metaded in the plans of some correction of records of rights has been metaded in the plans of some correction of records of rights has been metaded in the plans of some correction of records of rights has been metaded in the preparation and the prepar
 - 19. A number of surveys of land reform had been undertaken in different parts of the country through the Research Programmes Committee of the Planning Commission. They bring out the problems encountered in enforcing the legislation. In view of the wide scope of the legislation which has been enacted and differences in conditions, it is desirable to extend these studies on a systematic basis. For this purpose the assistance of universities and leading testarch centres should be fully availed of. The aim should be to

cover different areas in accordance with a general scheme and to arrange for the evaluation of land reform both in the transitional phase and from the aspect of long-term economic and social effects.

VII

AGRICULTURAL LABOUR

In relation to agricultural labourers, the two principal problems are their place in the future rural economy and provision of work for them. Although the social handcaps, associated with agricultural labourers, and with backward classes generally, have greatly diminished, their economic problems, especially the need for larger opportunities of work, have been thrown into sharper relief. It is one of the primary objects of the Five Year Plans to ensure fuller opportunities for work and better living to all sections of the rural comitionity and, in particular, to assist agricultural labourers and the backward elasses to come up to the level of the rest. Their problems indoubtedly constitute a challenge, and the obligation rests upon the community as a whole to find satisfactory solutions for them.

- 2 The problem of agricultural labourers is part of the wider problem of unemployment and under-employment in rural areas, With the development of agriculture and irrigation three has been increase in production and in the total volume of work. But this has been shared among much larger numbers. It has always been realised that the various measures which are undertaken in the interest of ine turnl population as a whole must be supplemented in several directions by special measures for assisting agricultural labourers in improving their living conditions and obtaining a fair share of the wider opportunities which are now being developed in the villages through rural development and other programmes.
- 3 The First Plan included proposals for settlement of agricultural labourers, protection against ejectment from homesteads and enforcement of minimum wages, especially in low wages pockets in delerent States. During the Second Plan individual States continued with the resultement schemes which they had formulated and a number of these were assisted by the Central Government. Some State Governments took steps to provide house sites free or on a subsidised basis. Program acso dischedipment under agriculture, irrigation, community development and vill ge and small industries were expected to benefit agricultural albourers to a considerable extent along with others in the rural are it.

- 4. The Third Plan provides for large investments in the development of rural economy. The total outlay in the public sector on agriculture, community development and irrigation will amount to over Rs. 1,700 crores. These, together with programmes of development of village and small industries, village electification, village water supply, rural housing and welfare of backward classes, for which adequate provisions have been made in the Plan, will largely benefit agricultural workers and other weaker sections in the rural community. Besides, following the recommendation of the Central Advisory Committee on Agricultural Labour, recently set up by the Planning Commission, efforts will be made to settle 7 lakh families of landless agricultural workers over an area of 5 million acres. The Plans of States provide shout Rs. 4 crores for settlement schemes In addition, at the Centre a sum of Rs. 8 crores has been provided for assisting State Governments in implementing their settlement schemes.
- 5. The most significant measure proposed in the Third Plan for the benefit of agricultural labourers is the programme for undertaking works projects in rural areas. Under this programme, it is hoped to provide additional wage-employment in rural areas for about 100 days in the year, specially during the slack agricultural seasons, for about 2.5 million persons by the last year of the Third Plan. This programme will specially concentrate on schemes for agricultural development like irrigation, flood control, land reclamation, afforestation, soil conservation, road development projects, etc., in agricultural slack seasons, specially in areas with high incidence of under-employment.
- 6. Reorganisation of the rural economy along cooperative lines and emphasis on the role and obligations of the community are intended not merely to raise agricultural productivity and diversify the rural economic structure but, equally, to bring about as rapidly as may be possible an integrated society in which there will be equal opportunity for every member of the community, irrespective of caste or status in other words, in the structure of the rural economy which the Fixer Plans attempt to build up, agricultural bioouvers will participate fully and on equal terms with others, and will achieve effective economic and social equality with the rest of the rural population. A close watch on the progress actually achieved in these directions should be maintained through special studies and evaluation as well as review by the Central Advisory Committee on Agricultural Labour and similar bodies proposed to be set up in the States.

from these schemes at the end of First and Second Plans is set out below:

Renefits from irrigation schemes

Benefits fro	m 1	rrigation	schemes		
		otential*	gross area	ırrıgated	
end of		channel outlets (in million acres)	(in million acres)	as per- centage of potential at outlet	net area irrigated (in million acres)
First Plan (1955-56)	٠.	6.5	3-1	48	2.9
Second Plan (1960-61) (estimated)		13.2	10 0	76	9-0

- 4. Programme for the Third Plan .- In the Third Plan, emphasis has been given to the following categories of schemes:
- (1) completion of continuing schemes of the Second Plan right up to the cultivators' fields, i.e. including field channels;**
 - (2) drainage and anti-waterlogging schemes; and

(3) medium irrigation projects.

The new projects to be commenced during the Third Plan include about 95 new medium irrigation schemes. The cost of irrigation and flood control programmes during the Third Plan is Rs. 661 crores. This includes Rs. 436 crores for irrigation projects carried over from the Second Plan, Rs. 164 crores for new projects and Rs. 61 crores for flood control, drainage, and waterlogging and anti-sea-erosion schemes. The benefits under various heads anticipated during the Third Plan are as follows :

lan are as follows:			
Programme and benefits in	the Third	Plan addition	al benefits
group	outlay	potential	gross mi- gated area
	(Rs. crores) (m. t	million acres)
t irrigation : continuing schemes	436 164	13 8 2 4	11 · 65 t · 15
	600	16·2 net area	12·80 11·50
2 flood control, drainage, anti-waterlogging and anti-sea-erosion schemes	61	to be l	million acres benefited and iles of sea o be protec-
total	661		

^{*}Irrigation potential is the area which can be irrigated with the water made available at channel outlets.

^{**}The term 'field channel' refers to a channel which conveys or distributes water from an outlet or opening in a water course for irrigation of fields.

A separate provision has been made under 'Agriculture' for soil conservation works in river valley catchments, and about a million acres are expected to be covered

- 5 Flood control, dramage, anti-waterlogging and anti-sea-erosion' senses—Flood control, dramage and anti-waterlogging are closely related to irrigation, and these have to be viewed together in drawing up comprehensive development plans. Waterlogging in certain parts of the country, particularly in the Punjab, has become serious and anti-waterlogging measures have to be taken up in the Third Plan on an extensive scale. Similarly, anti-sea-crosson measures in certain coastal reaches, such as Kerala, have to be given due attention.
- 6 Financial returns —Irrigation systems are at present working at a loss in almost all States Special steps to bring about substantial improvements in financial returns from irrigation works, which are urgently called for, are speeding up tolisation of irrigation, revision of water rates and introduction of compulsory water cess, legislation for and recovery of betterment levy, and economy in the use of irrigation supplies. Water rates should ordinarily over working expenses and debt charges in most States, the existing water rates are relatively low and require upward revision. Further, in States where water charges are optional, there should be a compulsion water cess leviable on the entire area for which irrigation facilities are provided, irrespective of whether water is taken by cultivators or not. Legislation for bitterment less has already been enacted in all but three States but, almost exerwhere, enforcement of the legislation has lagged behind. Legislation from the entire area for which is also been enacted in several States. Promotion of the nacessary legislation in the remaining States and enforcement of legislation where it has already been passed are essential steps to be taken to reach the estimated yield of Rs. 39 crores from betterment levy and flood cess during the Third Plan.
- 7 Utilisation of urigation—The principal measures needed for securing speedy benefits from trigation projects are well known. They include synchronisation and correct phasing of the programmes for the construction of head-works, canals distributanes, water courses and field channels, setting up development blocks over the entire project area marking out by the project authorities on village maps the alignment of water courses and field channels and supply of these maps to district and block authorities, carrying out systematically other developmental activities such as soil surveys, setting up of demonstration farms economy in the use of water, advance planning by the Departments concerned in their respect fields, for instance, for the supply

of improved seeds and fertilisers, provision of credit, marketing facilities, etc. Concessional water rates in the initial two or three years of a new irrigation project are also important.

8. Investigation, research and design.—Master plans for the long-term development of irrigation should be prepared in each State. Schemes which may be proposed for consideration in the Fourth Plan by the State Governments should be thoroughly investigated well in time, and project reports, complete in all important respects, prepared for them in the course of the Third Plan itself. For this purpose, as also for schemes included in the Third Plan, investigation units in the States should be strengthened.

An outlay of Rs. 120 lakhs has been provided in the Third Plan for the programmes of fundamental research in irrigation, which are being conducted at the Central Water and Power Research Station, Poona and fifteen other research stations in the States. Every State should also have a strong designs organisation which, working in conjunction with the research organisation, should produce the most suitable and economical designs.

- 9. River Boards —For integrated and economic development of water resources, arrangements for inter-State cooperation for development of river basins, especially those of the larger rivers, are essential. In the long-term planning of water resources, the requirements of water supply for industries and for the growing urban populations will also constitute a major problem in development. The setting up of River Boards for important river basins would enable a coordinated view to be taken of the needs of a river basin as a whole, including soil conservation in the catchiment area.
 - 10. Public cooperation—Beneficiaries of flood control, drainage, anti-waterlogging and anti-sea-erosion schemes as also certain portions of irrigation works should be persuaded to contribute towards these schemes by offering voluntary labour and/or monty in lieu thereof. These works should be carried out in close cooperation with the local elected bodies. To the extent possible, labour cooperatives and voluntary organisations should be utilised.
 - 11. Use of manual labour and machinery.—Ordinarily, construction on projects should be carried out manually, unless resort to manual labour delays completion of the work abnormally, or adds to its cost prohibitively. When necessary, judicious use of machinery and equipment to assist manual labour may be resorted to.

- Maintenance of existing works.—Maximum benefits should be derived from existing irrigation facilities by efficient maintenance and operation.
- 13. Control Boards.—Several large projects are being taken up in the Third Plan. For some of these, it would be helpful to set up Control Boards to ensure their efficient and economieal planning and implementation. For other large projects, for which no Control Boards are set up, there should be arrangements for periodical review by the Ministry of Irrigation and Power with a view to removing bottlenecks and ensuring speedy unplementation.

POWER

- 14. The total installed generating capacity in the country at the beginning of the First, Second and Third Plans was 2.30 million kW, 3.42 million kW and 5.70 million kW respectively. The additional generating capacity installed during the Second Plan averaged about 0.45 million kW per annum. It is proposed to step up this programme by commissioning 1.40 million kW per year on an average during the Third Plan. The aggregate installed generating capacity in the country by 1975-76 may be of the order of 35 million kW.
- 15. By the end of the Third Plan, the aggregate capacity of the plants in commission and under erection and testing will be of the order of 13.40 million kW, of which 12.69 million kW are expected to be in commercial operation. With the completion of this programme, per capita generation of electricity will have risen from 18 kWh in 1951, 28 kWh in 1956 and 45 kWh in 1956 and 45 kWh in 1956 and 45 kWh in 1956 and 66,000 miles of transmission network will be further strengthened and 66,000 miles of transmission lines (11 kV and above) are proposed to be constructed during the Third Plan.

A nuclear power station with an installed capacity of 300 MW is planned for construction at Tarapur near Bombay.

- 16. Financial outlays.—The total investment on power up to the end of the Second Flan is estimated to be Rs. 1017 crores—Rs. 790 crores in State-owned public utilities, Rs. 149 crores in companyowned public utilities, and Rs. 78 crores in self-generating industrial establishment;
- The estimated cost of the total power programme in the Third Plan is Rs. 1089 erores—Rs. 1039 crores in the public sector and Rs. 50 crores in the private sector—with foreign exchange requirements being estimated at Rs. 320 crores. The approximate break-up of the programme in the public sector is Rs. 661 crores for hydro

and thermal generating schemes, Rs. 51 crores for atomic power and about Rs. 327 crores for transmission and distribution schemes including Rs. 105 crores for rural electrification.

17. The growth of installed capacity is set out below:

Growth of installed capacity and energy generated

	1950	1955	1960-61 (esturnate)	1965-66 (estimate)
installed capacity (in million kW) State-owned public utilities	0.63	1.52	3.32	9-82
company-owned public-utilities	1.08	1.18	1.36	1 - 45
self-generating industrial establishments	0.59	0.72	1 -02	1.42
total	2.30	3.42	5.70	12-69

The total energy generated will increase from nbout 20,000 million kWh at the end of the Second Plan to about 45,000 million kWh at the end of the Third Plan. Industries consume about 63 per cent of the total amount of electricity generated or, expressed differently, about 72 per cent of the power sold to consumers.

18. Rural electrification.—The Third Plan provides for an outlay of Rs. 105 crores for rural electrification. Increase in the number of villages and towns electrified during different Plan periods is shown below:

Towns and villages electrified

population range			total number according to 1951 census	number electri- fied by March, 1951	number electri- fied by March, 1956	number electri- fied by March, 1961 (estimate)	number to be electri- fied by March, 1966 (estimate)
over 100,000			73	49	73	73	73
50,000 to 100,000	•	-	111	83	111	111	111
	•	•	401	240	366	399	401
20,000 to 50,000	٠			_	350	756	856
10,000 to 20,000			856	260			
5,000 to 10,000			3,101	258	1,200	1,800	3,101
	•		5,56,565	2.792	5,300	19,861	38,45B
less than 5,000	٠			3,687	7,400	23,000	43,000
total			5,61,107	3,037	,,400		-

19. There are a number of isolated areas where small hydro plants of 10 to 100 kW each can be set up at modest cost. Small hydro units up to Rs, 100 kW capacity are now being manufactured in the country. In the long run, they will be more economical than dieselalternator sets and relatively easy to maintain, and will not involve foreign exchange for their procurement or operation.

- 20. Rural extensions of electricity become relatively uneconomic manily because of distances separating individual villages, the low level of power consumption and the seasonal character of the requirements of power, specially in agriculture. With a view to improving the load factor it is essential that different types of economic activities in each distinct requiring the use of power should be developed in a coordinated manner. There should be forward planning for rural electrification, so that simultaneous action is instituted in all the sectors at the appropriate time. It has been suggested to States that in every district where electric facilities exist or are likely to be available, small committees should be set up to plan and advise on rural development programmes. There should be coordination between programmes for the development of village and small industries, minor irrigation requiring electricity for pumping and for generation and distribution of power in rural areas.
- 21. Several aspects of rural electrification such as those relating to the adequacy of power supply for rural loads, rates for supply and the role of Panchayat Samitis and Village l'afichayats in the distribution of electricity are being studied further.
- 22. Other aspects of power development.—The Electricity (Supply) Act, 1948, laid down that a sound, adequate and uniform national power policy should be developed for coordinating the activities of planning agencies in relation to the control and utilisation of national power resources. This calls for exploitation of the natural resources in the most economical manner for the benefit of the entire region regardless of State boundaries. There has been utter-State collaboration in the past in the execution of projects such as Bhakra-Nangal, Machkund, Tungabhadra, Chambal and others. Such ecoperation needs to be further extended so that power generation may be undertaken on a regional or zonal basis and not merely to meet demands within one State. A special unit in the Central Water and Power Commission is being set up for undertaking studies and planning of regional super-grids in association with State Electricity Boards and other electricity supply undertakings.
- 23. State Electricity Boards set up in accordance with the Electricity (Supply) Act, 1948, are charged with the general duty of promoting the coordinated development of the generation, supply and

distribution of electricity within each State in the most efficient and economical manner. Certam essential steps have to be undertaken for bringing about substantial improvement in the financial position of State Electricity Boards, which in many cases is not satisfactory.

- 24. Hydro-electric projects require extensive investigations. There has been a paucity of fully investigated projects which has hampered the more rapid development of this source of cheap power. A programme for investigating 64 specific hydro rites with a potential of 12 million kW has been drawn up and it is necessary to devote special attention to it.
- 25. System surveys of prospective loads in the various regions and their periodic review should be conducted by the State Electricity Boards and the Central Water and Power Commission.
- 26. Research.—Research on problems of generation, transmission and distribution will be earned out in the Power Research Institute established at Bangatore. A switchgear testing station is being set up at Bhopal for testing and developing designs of switchgear.
- 27. Design and construction A unit with a specialist organisation to plan, design and construct large hydro and thermal stations, which work is at present being done through foreign consultants, is being set up within the Central Walter and Power Commission.

CHAPTER 14

VILLAGE AND SMALL INDUSTRIES

VILLOE and Small Industries have made a significant contribution in the First and Second Plans in realising the objectives of expanded employment, larger production and more equitable distribution. With the larger dimensions of the tasks to be accomplished in the Third Plan, their role will be even more important. One of the principal aims of planning in this field is to assist in the adoption of improved techniques and more efficient forms of organisation, so that full advantage is taken of the basic facilities and services available as a result of general economic development, and over a period the entire sector becomes self-reliant and self-supporting. At the same time, the pace of technical change will have to be so regulated that large-scale technological unemployment is avoided. The problems of these industries will, therefore, need to be constantly reviewed and necessary measures taken to realise the full potential of decentralised industry as an essential and continuing element in the national economy.

REVIEW OF PROCRESS

- 2. In the First Plan, a major step taken was the establishment of All-India Boards to advise and assist in the formulation of development programmes for the Handloom Industry, Khadi and Village Industries, Sericulture, Coir, Handicrafts and Small Scale Industries. An essential feature of development programmes was the provision of assistance in different forms such as credit, training facilities, technical advice, supply of improved tools and equipment on easy terms and establishment of sales depots. In the Second Plan, the scale of assistance for all these purposes was considerably enlarged, the total anticipated outlay being a little less than Rs 180 crores compared to about Rs, 43 crores in the First Plan. State Departments of Industries were also strengthend.
- 3. According to information available at present, production of halloom cloth increased from about 742 million yards in 1950-51 to about 1,900 million yards in 1960-61. Fuller employment was provided for nearly 3 million weavers. The number of looms in the cooperative fold increased from less than 700,000 in 1953 to nearly 1.3 million by the middle of 1960. Production of traditional khadi (cotton, silk and woollen) increased from 7 million yards in 1950-51 to about 48 million yards in 1960-61 and that of Ambar khadi (produced from the admixture of Ambar yarn and ordmary charkha yarn) increased from 1.9 million yards in 1960-61 and that of Ambar khadi (produced from the admixture of Ambar yarn and ordmary charkha yarn) increased from 1.9 million

lion yards in 1956-57 to about 26 million yards in 1960-61. Additional employment, mainly part-time, was provided by these programmes to nearly 1.4 million spinners, besides whole-time employment to about 1.9 lakh weavers, carpenters, etc.

- 4. Village industry programmes in the Second Plan provided partial relief to about 5 lakh artisans and under-employed women workers in villages. An intensive area scheme was undertaken during the Second Plan which aimed at intensive development of khadi and village industries as part of a larger effort for developing an integrated rural economy. Production of raw silk rose from 2.5 million lbs. in 1950. As the end of the Second Plan period, it was reckoned that the industry provided part-time employment to about 2.7 million persons, besides full-time employment to about 35,000 persons. Exports of coir yarn and goods remained below the level reached at the end of the First Plan period. The industry is at present estimated to provide employment to about 8 lakh persons. In handicrafts, there was an increase in internal sales as well as exports. It is estimated that handicrafts including carpets worth over Rs. 6 crose stimated that handicrafts including carpets worth over Rs. 6 crose stimated than period.
 - 5. Many small scale industries, notably machine tools, sewing machines, electric fans and motors, bicycles, builders' hardware and hand tools, expanded considerably during the Second Plan, the increase in production being as much as 25 to 50 per cent per annum. An industrial extension service was established and modern machines valued at about Rs. 4,2 erores were supplied on hire-purchase terms to small industrialists. About 6 lakh pairs of leather shoes were supplied by small scale units for export. About 60 industrial estates were completed small scale units for export. About 60 industrial estates were completed small scale industrials as who be is estimated to have provided full-time employment to about 3 lakh persons.

APPROACH IN THE THIRD PLAN

- The main objectives to be kept in view in implementing programmes for village and small industries in the Third Plan will be:
 - (i) to improve the productivity of the worker and reduce production costs by placing relatively greater emphasis on positive forms of assistance, such as improvement of skill, supply of technical advice, better equipment and credit, etc.,
 - (ii) to reduce progressively the role of subsidies, sales rebates and sheltered markets,

- (iii) to promote the growth of industries in rural and small towns.
- (iv) to promote the development of small scale industries as ancillaries to large industries, and
- (v) to organise artisans and craftsmen on cooperative lines.

The policies and measures proposed for achieving these objectives are outlined below.

- 7. Improvement of skill and productivity.—Training facilities for metaling the requirements of technical and managerial personnel will be considerably enlarged in the Thard Plan. For tural artisans, a scheme has been drawn up to set up in selected areas 'cluster-type' institutions, serung groups of villages for providing training courses in certain alleled trades such as blacksmithy, carpentry, etc. An all-India institute will be set up to provide facilities for training in industrial extension techniques. In addition to the introduction of improved tools and equipment, efforts will also be organised on a larger scale to provide technical advice to artisans and craftsmen encaged in various industries.
- 8 Credit and finance —Credit facilities will be organised on a larger scale in the Third Plan and made available on reasonable terms and with the minimum of procedural delays. However, the aim to be kept in view is that in increasing measure the credit required should be available from normal banking and financial institutions.
- 9 Common production programmes -Positive measures of organisation and assistance were mentioned in the First and Second Plans as being among the elements of common production programmes. The expression "common production programme" was adopted as a convenient way of describing the basic approach for determining, while formulating programmes for development in different sections of an industry, the respective contributions which the large-seale and smallscale and cottage sectors could make towards the total requirements of the community, in the context of the social and other objectives. The other elements of the programme, which had the object of providing a degree of preference or assurance in marketing to the small-scale sector, were reservation of spheres of production, limiting the expansion of capacity of the large-scale sector of the industry, imposition of casses on large-scale units and giving a price advantage to the smaller units through differential taxation, subsidies, sales rebates, etc. It was recognised that the general principles underlying common production programmes could be applied only after detailed study and investigation of the problems of particular industries,

- 10. Role of subsidies, sales rebates, etc.—The progressive enlargement of programmes of positive assistance is expected to make it possible to reduce the role of subsidies, sales rebates and sheltered markets in the Third Plan. In the case of some of the traditional industries, measures for ensuring preferential treatment and assurance of market for their products may have to be continued for a somewhat longer period than in the case of small-scale industries.
- 11. Industrial development in rural areas and small towns—
 Emphasis in the Third Plan will be on encouraging the further growth of
 industries in rural areas and small towns as well as in less developed
 areas having a marked industrial potential. To this end, areas in which
 various basic facilities will become available as a result of development
 envisaged in other sectors have to be identified and different kinds of
 assistance provided in an integrated manner in rural areas and small
 towns. In this way a number of successful centres which may serve
 as models and as nuclei for more widespread development should be
 built up. In particular, processing industries should be developed to
 the maximum extent in the decentralised and small-scale sector and on
 a cooperative basis. Where power and other basic facilities are not
 available, rural artisans should be assisted to organise on cooperative
 lines.
- 12. Development of small industries as ancillaries.—Various methods of promoting the development of small-scale industries as ancillares to large-scale industries are being examined by a special committee. It is proposed to encourage schemes for linking up the production of small scale units with those of large industrial projects in both the public and private sectors. In each branch of industry, it is essential to take a comprehensive view of the requirements of the community, the contribution which small industries can make in relation to large-scale industries and the extent to which processes and stages of production can be decentralised. A number of industries are being studied for such integrated development.
- 13. Industrial cooperatives.—The emphasis in the Third Plan will be on consolidation of the organisation and finance of the existing cooperatives and on bringing more workers within the cooperative fold. The main steps proposed to be taken include provision of financial assistance to cover expenditure on managerial and supervisory staff for a limited period, substidisation of the rate of Interest charged by the entral ecooperative financing agencies to the primary societies, etc. In the case of those small-scale industries where industrial entrepreneurs or partnerships predominate, formation of associations will be encouraged.

14. Arrangements for coordination.—Further means will need to be devised to secure coordination among the various Boards and agencies concerned with the implementation of the programmes, particularly at the field level. With developments envisaged in the field of agriculture, power, transport, etc. it is necessary to take a unified view of the entire problem of rural industrialastion which the existing Boards may not always be able to do because each of them operates in its own specified field. It is proposed to examine various aspects of this question further in consultation with State Governments and the Boards.

OUTLAY AND ALLOCATION

15. In the Third Plan, a total outlay of Rs. 264 crores has been proposed as compared with an estimated expenditure of a little less than Rs. 180 erores in the Second Plan. The break-up of this outlay between different industries is given below:

						(Rs. crores)			
					Second Plan	Thir	d Plan outlays		
industry					estimated expendi- lure	States and Union Terri- tories	Centre	total	
handloom industry					29.7	31.0	3.0	34-0	
powerlooms in the h	andl	oom :	secto	t	2.0	-	4.0	4.0	
khadi-traditional				1			37.07		
ambar				}	82-4	3-4	32-0	92.4	
village industries				J			20-0		
sericulture					3-t	5-5	1.5	7.0	
core industry					2.0	2-4	0.8	3 • 2	
handscrafts					4.8	6-1	2.5	8+6	
small scale industries	9				44-4	62.6	22-0	84-6	
industrial estates	•				11-6	30-2		30.2	
total					t80-0°	141-2	122-8	264-0	

In addition to the outlays indicated above, there is a provision of about Rs 20 crores made for the development of these industries in the programme of community development and some provisions for the purpose have also been made in the programmes for the rehabilitation of displaced persons, social welfare and the welfare of backward classes. Further, about Rs. 275 crores are expected to be invested from private cources including banking institutions. Under each programme, it is essential that expenditure on buildings and overheads is kept to the 'Anipinum.

^{*}Outlay anticipated is of the order of Rs. 175 crores.

PROGRAMMES OF DEVELOPMENT

- 16. Handloom and powerloom industries.—Besides expansion in handloom production through fuller employment of bandloom weavers, more liberal loan assistance for share capital, and introduction of improved techniques, empbasis will be shifted gradually from rebate on sales and other schemes involving subsidy to more positive forms of assistance. It is proposed to revitalise a number of weak cooperative societies. Steps will also be taken to stimulate the exports of handloom clotb. With a view to improving the economic conditions of handloom weavers organised on cooperative lines, it is proposed to assist them to instal 9,000-9,500 powerlooms during the next few years. Of the total production target of 4,300 million yards of cloth set for 1965-66. the share of the decentralised sector, namely, the handloom, powerloom and khadi industries, has been fixed at 3,500 million yards, but no precise distribution of it between these different sections has yet been made. The position will be reviewed from time to time in the light of progress made in each sector.
- 17. Khadi—traditional and Ambar.—Development of khadi in the Third Plan will be mainly along the lines of the reoriented programme drawn up by the Khadi and Village Industries Commission in which the emphasis will primarily be on intensive efforts to secure integrated rural development of selected compact areas or gram ekais. It is proposed to organise 300 gram ekais, each covering a village or group of villages having a population of 5,000 each. Another distinguishing feature of the future programme will be the preparation of local plans for the maximum exploitation of available resources for local use. The traditional charkha will continue to play a definite role, but greater efforts will be made to popularise the Ambar charkha, whose productivity will be increased further. Although no precise allocation of production targets of cloth has been fixed for different sections of the decentralised sector, the aim is to raise the production of khadi to about 160 million vards.
- 18. Village industries.—There are inherent difficulties in securing rapid progress in the development of village industries. Rural artisans are usually dispersed in a large number of scattered villages and suffer from low standards of literacy and poor economic conditions. Lack of trained and qualified staff and of adequate funds and organisation for procurgement of raw materials in bulk and inefficient techniques of production are other factors to be reckoned with. The Khadi and Village Industries Commission has prepared programmes for village industries for implementation in compact areas and mainly to meet

local requirements. The existing character of many of these industries is expected to change through the use of improved techniques and also the use of power, wherever available and considered desirable. Development programmes have been drawn up for such village industries as hand-pounding of paddy, oliseeds crushing, tanning and leather, match, gur and khandsari, bee-keeping, palm gur, hand-made paper, etc. They include schemes for setting up new production units and introduction of improved equipment and generally for more intensive development. It has been observed that the intentions of the Rice Milling Industry (Regulation) Act, 1938, specially, due consideration of the kitely effects of new heensing on the existing hand-pounding industry and preference to rice mills to be run by ecoperative societies, have not been adequately fulfilled. It is proposed to consider further the problems which have arisen so as to ensure that the policies visualised in the legislation are carried out effectively.

- 19 Sericulture.—The emphasis in the development programme for the sericulture industry will be on reducing the cost of production, creating a suitable marketing organisation, supplying diseast-free seed and exploring possibilities of increasing exports. Mulberry cultivation is to be made a paying occupation by increasing the yield per act through irrigation and application of fertilisers. The traditional charkha is to be replaced by cottage basins. Facilities for ecoperative marking for both ecocons and raw silk will be developed with a view to ensuring an economic price to rearies and preventing undue rise in prices of raw silk. The possibilities of uncreasing exports will be explored. The production of mulberry and non-mulberry silk is expected to increase from 3 6 million lbs. in 1965-66.
- 20. Cost mutatsty —The main emphasis in the Third Plan will be on stepping up exports and organising coir cooperatives on a more stable feoting. Coir spinners will be supplied treadle spinning machines with a view to improving the quality of yarn and ensuring stricter control and greater supervision over the operations of primary cooperative societies. A special export promotion scheme has been drawn up to assist registered manufacturers-cum-exporters of coir yarn and other products. The programme includes promotion of new lines of production like willisation of occount pith and coir waste and settling up of delibring plants for the manufacture of matters and bristle flow.
- 21. Handicrafts.—The All-India Handicrafts Board has adopted specific programmes for the development of twelve selected crafts. As a result of development work undertaken in recent years, the key problems of various crafts have been identified. Special steps to deal with

them more fully will be taken during the Third Plan. While cooperatives will constitute the main line of development, there is scope also for organisation of small entrepreneurs into associations with a view to adoption of improved business standards, control over quality and better conditions for artisans. In addition to promotion of exports, production of handicrafts has to be orneted towards meeting the needs of customers in different income groups within the country itself and the development of rural crafts Programmes for the Third Plan include pre-shipment inspection, credit and other facilities for exporters, establishment of design extension centres, promotion of inter-State marketing, marketing research and extension of training facilities in selected crafts and also in management of emporia and salesmanship.

- 22. Small-scale industries.-Programmes undertaken during the Second Plan period for provision of technical advice and information, credit and training facilities, supply of machines, development of marketing and stores purchase, etc., will need to be developed further in line with the larger tasks set by the Third Plan. In addition to increase and diversification of production, programmes in the Third Plan must aim at securing closer integration between small-scale and large-scale units over a wide range of industries and development of small industries as ancillaries, promoting these industries increasingly in small towns and at rural centres and providing larger facilities for cooperatives, small entrepreneurs and new entrants. An essential aspect of development will be to secure the fuller utilisation of the available capacities through the adoption of two shifts and provision of the requisite raw materials. Stores purchase policies and related programmes need to be developed more extensively in States and also at the Centre. Among other developments, reference may be made to the proposed establishment by States of depots for stocking raw materials in short supply and Small Industries Corporations for constructing industrial estates and running raw material depots and common-service facility centres.
 - 23. Industrial estates.—It is proposed to set up during the Third Plan period about 300 new industrial estates of varying sizes and types. They will be located as far as possible near small and medium-sized towns. It is also intended to start a number of industrial estates in selected rural areas where power, water supply and other essential facilities are available or can be readily provided. At appropriate places, particularly near large cities and towns, it is envisaged that only developed sites should be provided on which small entrepreneurs could erect their own factory buildings. With a view to promoting small

ancillary industries, it is proposed to start some functional estates for the specific purpose of accommodating small units which will work as ancillaries to the related large-scale industries. Certain suggestions have already been worked out for securing economies in the general lay-out of industrial estates and the construction of factory buildings, etc., which will have to be followed closely in setting up once states.

FAIRLOVMENT

24. On the basis of the total investment under the Third Plan, including outlay in the public sector and investment from private sources, it is estimated that the development programmes outlined above will provide part-time employment or faller employment to about 8 million persons and whole-time employment for about 9 lakb persons.

EXPORTS

25. Exports of coir yarn and manufactures, handloom fabrica and handcrafts are valued at an annual average of about Rs. 21 crores, In several directions, products of small-scale industries bave also begun to contribute towards exports. It should be possible to secure stable and expanding markets for a growing range of products of small industries through constant attention to improvement and standardisation of quality, reduction of cost, introduction of new designs, etc.

STATISTICS

26. Basic statistical data for small industries for the country as a whole, which are essential for making a quantitative assessment of the impact of the programme and for drawing up new plans, are still lacking. A complete list of industrial units is, however, expected to be available through the Census of 1961 and, using this as the 'frame', it is proposed to conduct bi-annual surveys to cover initially all units which comploy 10 or more workers (whether using power or not) and having a capital investment not exceeding Rs. 5 lakhs each.

CHAPTER 15

INDUSTRIES AND MINERALS

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INDUSTRIES

REVIEW OF PROGRESS

DURING the past decade and particularly in the Second Plan period industry has grown and diversified very rapidly. Three new steel works have been completed in the public sector and two existing steel works in the private sector have been doubled. The foundations have been laid of heavy electrical, heavy machine tool and heavy machine building industries and other branches of heavy engineering. In the field of chemical industries not only greatly increased output has been achieved of basic chemicals including fertilisers but also the production of a number of new products e.g. urea, penicillin, synthetic fibres, industrial explosives, dysstuffs, newsprint, etc, has been undertaken. The output of many other industries has increased substantially. Organised industrial production has nearly doubled in the last 10 years, the index of industrial production having risen from 100 in 1950-51 to 194 in 1960-61.

- 2. There have, however, been also some noticeable shortfalls. The estimated output of finished steel in 1960-61 is only 2.2 million tons against the target of 4.5 million tons. There have been delays in the completion of important projects, such as fertiliser plants. In certain industries the targets set in the Plan were not realised.
- 3. Over the last decade some success has been achieved in the dispersal of industry. The location of the three new steel plants at Bhilai, Routkela and Durgapur, the heavy machinery plant at Ranchi and the heavy electrical project at Bhopal and the legate project at Neivel have had the effect of creating new centres of industry in cnturely mareas. In the licensing of private sector projects the claims of underdeveloped regions have generally been kept in view to the extent possible.
- 4. The overall fixed investment in organised industry during the Second Plan period has been about Rs. 1,620 crores—Rs. 770 crores in the public sector and Rs. SSO crores in the private sector as against the original estimates of Rs. 560 crores and Rs. 685 crores respectively.

APPROACH IN THE THIRD PLAN

 Objectives.—The industrial plan for 1961-66 aims at laying the foundations for further rapid industrialisation over the next 15 years. LSODPD-9 It is, therefore, essential to press forward with the establishment of basic capital and producer goods industries—with special emphasis on machine-building programmes—and also with the acquisition of the related skills, technical know-how and designing capacity, so that in the following plan periods the growth of the economy will become self-sustaining and increasingly independent of outside aid. At the same time, provision will also have to be made to the extent possible for meeting the demands likely to be generated over the next five years for a wide range of other manufactured goods. While essential needs will be provided fully, restraint on consumption will be unavoidable, specially in the case of goods of a luxiny or semi-luxiny character. Further, industrial programmes will also necessarily have to take into account and will in fact be limited by the rate at which the supply of raw materials, power, etc., een be increased.

- 6 Industrial policy—Expansion of industry will continue to be governed by the Industrial Policy Resolution of April, 1956. As in the Seeond Plan, the roles of the public and private sectors are conceived of as supplementary and complementary to each other.
- 7 Industrial priorities—Having regard to the pressure on resources, fuller utilisation of existing installed capacity must take precedence over expansions or setting up of new units Secondly, expansion of existing plants will have to be given preference over establishment of new units, since the creation of new capacity in this manner will not only be quicker but will also assist in bringing down the investment cost per unit output. As regards new developments, the accent will have to be on projects which, by contributing to exports or by treplacing imports, with earn or save foreign exchange. It would not be possible to allow significant expansion of industries which are heavily dependent on the import of raw materials. On the other hand, special attention will have to be given to the development of industries for whose products there are reasonable prospects of finding export markets.

Subject to these general considerations the emphasis to be given to programmes and projects over the next few years will be broadly in accordance with the following promites

- (i) Completion of projects envisaged under the Second Plan which are under implementation or were deferred during 1957-58 owing to foreign exchange difficulties.
- (ii) Expansion and diversification of capacity of the heavy engineering and machine building industries, castings and forgings, alloy tool and special steels, iron and steel and ferro-alloys, and step-up of output of fertilisers and petroleum products.

- (iii) Increased production of major basic raw materials and producer goods like alumnium, muneral oils, dissolving pulp, basic organic and inorganic chemicals and intermediates inclusive of products of petro-chemical origin.
- (iv) Increased production from domestic industries of commodities required to meet essential needs like essential drugs, paper, cloth, sugar, vegetable oils and housing materials.

INDUSTRIAL DEVELOPMENT PROGRAMMES

8. Development programmes for industries and minerals envisaged in the Third Plan will call for a total investment of about Rs 2,993 crores in order to reach the physical targets set for achievement. Fheir foreign exchange cost is placed at about Rs. 1,338 crores. Details of the break-up are given below.

		public sector		private sector			ic and e sectors	
		total	foreign exchange	total	foreign exchange	total	foreign exchange	
(a) new revestment								
(i) mineral development		478	200	60	28	538	228 1.110	
						2,455		
(ii) industrial develops	nest	1,330	660	1,125	450	2,433	1,110	
total .		1,803	860	1,185	478	2,993	1,338	
(b) replacement .		_	-	150	50	1 0	50	

The fixed investment of Rs. 1,808 crores for industries and minerals in the public sector indicated in the table above is different from the figure of Rs. 1,882 crores given elsewhere as the outlay requirements of the public sector for industries and minerals because the latter figure includes assistance to plantation industries, construction subsidy to Hindustan Shipyard, expenditure on programmes of the National Productivity Council and the Indian Standards Institution and extension of the metric system, and assistance to the private sector through the National Industrial Development Corporation and through direct loans and State participation in private undertakings.

The estimate of investment on replacements shown in the above Table falls short of the minimum requirements, but it is unlikely that due to the pressure on the available resources a programme of much larger magnitude would be possible during the Third Plan period.

As compared to these estimates of requirements, resources available both for the public and private sector programmes are expected

on present reckoning to be deficient. The current allocation for industures and minerals in the public sector and the estimates of resources hiely to be available for private sector programmes amount to Rs. 2,570 crores—Rs. 1,470° crores for the public sector and Rs. 1,100 crores for the private sector.

In addition, it is hoped that about Rs 150 crores will be forthcoming for meeting the continuing arrears of replacement and modernisation in certain pre-war industries.

As a result, it seems probable that in both sectors there will be a sreable spill-over into the Fourth Plan and that the physical targets will not all be achieved by the end of the Third Plan period. It is difficult at this stage to forecast exactly which projects will get delayed and will spill over into the Fourth Plan and which of the physical targets may not be achieved.

10 Public sector programmes —The overall cost of industrial and mineral programmes in the public sector is about Rs. 1,882 crores. The provision that it has been possible to make for them within a total outlay of Rs 7,500 crores is Rs. 1,520 crores, being Rs. 1,450 crores at the Centre and Rs. 70 crores in the States.

The major industrial projects in the public sector included under the Third Plan are in the field of iron and steel, industrial machinery, heavy electrical equipment, machine tools, fertibusers, basic chemicals and intermediates, essential drugs and petroleum refining. In formulating the industrial programme account has been taken of the contribution towards meeting civilian needs that can be expected from expansions envisaged by Defence establishments in the field of alloy steels, tractors, trucks, electrical equipment, etc.

The major projects proposed for development as public sector undertakings by State Governments are the expansion of the Mysore Iron & Steel Works and of the Andhra Pajor Mills, doubling of the Durgapur Coke Ovens and the piping of gas from Durgapur to Calcutta, the third stage expansion of F-A CT. for adductanal production of fertilisers along with associated developments at Travancore-Cochin Chemicals and the organic chemicals project of the Durgapur Industries Board for the manufacture of caustic soda, phenol, phthalic anhydride and some other organic chemicals Provision has also been made in the State plans for setting up 'industrial development areas' which will contribute to the growth of industries in regions which are at present relatively backward industrially

^{*}Excluding Rs 50 crores to be transferred to the private sector.

11. Private sector programmes -Under the Industrial Policy Resolution of April, 1956 a large field of activity is open to private enterprise outside industries listed in Schedule 'A' whose future development is to be undertaken by Government Subject to the overall programme and the priorities indicated above, the Third Plan provides adequate scope and favourable conditions for the operations of the private sector.

According to present indications, the quantum of resources likely to be available to the private sector for financing gross fixed assets formation during the Third Plan period will be about Rs 1,250 crores as indicated below:

as indicated t	elow	:							(Rs crores
·									130
institutional ag	encies		•	•	•	-		Lother	
direct loan/pai	ticipat	ion b	y Con	tral at	id Sta	te Gover	raments and	, 041104	20
assistance				•	٠	•	•		200
new issues					•		•	•	600
internal resources (net of repayment liabilities) direct foreign credit/participation in capital							300		
direct foreign	credit/	partic	patio	n to C	Pilear				1,250

The funds likely to be available fall short of the requirements of the Private sector programmes which are estimated to cost about Rs 1,350 crores. There is also the problem of finding adequate foreign exchange amounting to not less than Rs 530 erores. An effort will, however, be made to ensure the full achievement of targets in the case of industries of high priority. To this end it is intended that the industrial programmes should be regularly reviewed and allotments of foreign exchange/credit made every six months in the light of the progress achieved and the priorities which may suggest themselves from time to time

MAIN FEATURES OF THE INDUSTRIAL PROGRAMMES

(a) MITALLURGICAL INDUSTRIES

 Iron and steel.—The overall targets proposed under this indus-try are 10.2 million tons of steel ingot capacity and 1.5 million tons of pig iron for sale. The share of the private sector in the steel target is 3.2 million tons of ingots. The existing installed capacity in the private sector is 3.0 million tons. The additional 0.2 million tons of steel capacity in the private sector is expected to come from installation of scrap based electric furnaces which will augment the supplies of billets to re-rollers. As regards sateable pig iron the output from the private sector is provisionally placed at about 0.3 million tons.

As regards the public sector, the most important task in the initial years of the Third Plan will be the rapid achievement of capacity output from the new steel plants whose construction was completed during the Second Plan period. New developments included in the Plan comprise the expansion of the Bhilat, Durgapur and Rourkela steel plants and of the Mysore from & Steel Works and the establishment of a new steel plant at Bokaro. In addition a project for a pig fron plant based on the use of coke from the Nevveh liemte is also included in the Plan.

The layout of the new steel plant at Bokaro is being planned for a capacity of two million tons of steel ingots, but in the first phase of development it is proposed to instal facilities for the production of one million tons.

The overall investment required for the public sector steel development programmes included in the Third Plan is estimated at Rs, 525 ctores

The total production of finished steel in the country during the Third Plan period is tentatively estimated to be of the order of 24 million tons inclusive of an output of 300,000 tons from the Bokaro steel plant in 1965-66.

- 13 Tool, alloy and stamless steels.—It is proposed to establish a special steels plant at Durgapur with an annual output of 48,000 tons. About 50,000 tons of alloy steels will be available from Define establishments. Against the total requirements of about 200,000 tons by the end of the Third Plan, the rest of the development in this industry is envisaged in the private sector.
- 14 Aluminium—The target of \$7,500 tons set for 1965-66 is expected to be achieved on the completion of the projects already licensed in the private sector. In the context of the rising demand for cleertolytic copper and the relatively meaging possibilities of substantially increasing its domestic production during the Third Plan, further expansion of capacity for aluminium, which is a substitute for copper, may be necessary.
- 15 Copper and zmc—The production of electrolytic copper will commence in the early years of the Third Plan with the commissioning of the unit at Ghatsila by the Indian Copper Corporation. An annual production of 11,500 tons of electrolytic copper is also envisaged from the smelter and the electrolytic refinery associated with the Khetri and Daribo copper mines. The production of zme will be taken up at the zinc smelter in Udaipur based on the zinc concentrates from the Zawar mines in Rajasthan. The annual capacity of this plant will be 15,000 tons.

(b) Engineering Industries

- 16. Large-scale developments are visualised in this sector in siew of the prospects of increased supplies of pig iron and steel, the emphasis on machinery manufacture and the scope in many instances for the wide employment opportunities in relation to investment. The public sector will mainly concentrate on projects for the production of heavy machine bridging. Apart from these, targets proposed within this field are to be fulfilled mainly by the private sector.
- 17. Castings and forgings.—Foundry forge capacity is of crucial importance for machinery manufacturing programmes targets set in the Third Plan are 12 million tons of grey and 200,000 tons each of steel castings and forgings. The capacity already planned in the public sector amounts to 139,000 tons of grey iron castings and about 76,000 tons each of steel castings and steel forgings. A substantial part of the new capacity in the private sector is expected to come up in connection with the expansion of the automobile industry and the manufacture of machinery for textiles, cement, sugar, paper, etc.
- 18. Industrial machinery—The principal projects of the public sector in this field are the heavy machinery plant near Ranchi; mining machinery project, Durgapur; the heavy electrical equipment plant, Bhopal and two other heavy electrical projects whose locations are still to be decided. The heavy machinery plant will be able eventually to supply the bulk of the equipment required for adding to steel making capacity at the rate of one million tors annually. The expanded mining capacity at the role of one million tors annually. The expanded mining capacity at the role of one million tors annually. The expanded mining capacity of 45,000 tons of equipment. The three heavy electrical equipment projects are designed to supply from indigenous sources a wide-range of electrical equipment sufficient to enable power generation to be increased at an annual rate of 2 million kW per year from 1971 onwards. Manufacture of high of 2 million kW per year from 1971 onwards. Manufacture of high ressure boilers for thermal power plants is another heavy engineering project included in the Plan.

The targets set for the production in the private sector include manufacture of complete plants to meet the requirements of cement, paper, sugar and cotton teetile mills.

19. Machine tools.—As against an estimated production of Rs. 7 erores in 1960-61, the target for machine tools envisaged for the Third Plan is Rs. 30 erores. In addition, the small-scale sector is expected contribute Rs. 5 erores of machine tools. The programme envisaged in the public sector consists of the expansion of Hindustan Machine tools and Praga Tools and the establishment of a new heavy machine

tools plant at Ranchi and another machine tool works of the same size as the HIMT. in the Punjab The output of machine tools in the public sector is estimated to increase to Rs. 15 crores by 1965-66.

20. Transport equipment —The manufacture of electrical and diesel locomotives, the eyension of the Visahapanam Shipyard and the establishment of a second shipyard at Cochin are the main developments envisaged in the public sector. In the case of automobiles, the Plan envisages an animal production of 100,000 automobiles and 60,000 motor cycles, scooters and three-wheelers. To reach the targets of production for automobiles without excessive strain on foreign exchange resources, the early achievement of a minimum of 85 per cent indigenous content should be given high priority. Priority has also to be riven to the production of commercial evidence over types.

(c) CHEMICAL AND ALLIED INDUSTRIES

- 21 Fertilisers —The demand for nitrogenous and phosphalic fertilisers is expected to expand to 1 million tons in terms of nitrogen and 400,000 tons in terms of P2 $_{\rm O}$ by 1965-66 A significant portion of the additional output of nitrogen is planned in the form of compound and or complex fertilisers, so that a part of the phosphale requirements will also be met simultaneously. Additional capacity for nitrogenous fertilisers is planned both in the public and private sectors. The expactity in the public sector by the end of the Third Plan is expected to be about 730,000 tons. In the private sector proposals for exting up five new units and the expansion of an existing factory with a total capacity of about 400,000 tons of nitrogen have been approved.
- As regards phosphatic fertilisers, the capacity already approved for superphosphate along with the production of complex fertilisers envisaged in the public and private sectors is expected to meet the full requirements of 400,000 tons by 1965-66.
- 22 Sulphuric acid coustic soda and soda ash.—The capacity targets of 1.75 million tons of sulphune acid, 400,000 tons of caustic soda and \$50,000 tons of soda ash by 1965-66 represent considerable expansion in these industries during the Third Plan period. Both in the case of caustic soda and soda ash, self-sufficiency is envisaged by the odd of the Third Plan period.
- 23 Organic chemicals —Large-scale developments are envisaged in this field. The development of allied chemical industries like plastics, dyestiffs and drugs has led to the creation of favourable conditions for the development of the organic chemical industry. The basic chemicals and intermediates project covers the manufacture of 40 organic inter-

- mediates with an aggregate output of 25,160 tons. Provision is also being made for its further expansion in due course by about 15,000 tons.
 - 24. Petroleum refining—The requirements of petroleum products by 1965 are estimated at 11.7 million tons. The capacity of the refineries in the private sector is about 5.6 million tons. The two refineries at Nunmaii and Barauni in the public sector under construction will have a capacity of 2.3 million tons. When these refineries are completed the total production of petroleum products will be 7.9 million tons. The gap between requirements and production will be to a large extent bridged when the third public sector refinery with an annual capacity of 2 million tons of crude throughput is established in Gujarat. There will, however, be about 4 lakh tons of surplus motor spirit. Various steps are at present under consideration for minimising the problem arising from the production of surplus motor spirit.
 - 25. Pharmaceuticals and drugs.—The programmes visualised in this fide include the establishment of the synthetic drug project at Sanatnagar, Andhra Pradesh, the anubotics plant near Rishkesh and the phytochemical plant in Kerala. Along with the developments envisaged in the private sector, it is expected that the country will be early self-sufficient in almost all the major items of drugs by the end of the Third Plan period.
 - 26. Plastics.—A large expansion in the manufacture of plastic materials is visualised for which an overall target of 25,000 tons is envisaged. The availability of petro-chemical raw materials provides favourable conditions for expansion in this field.
 - 27. Cement.—The capacity target for cement fixed at 15 million tons by 1965-66 represents about 50 per cent increase over the level expected to be reached by the end of the Second Plan

(d) Consumer Goods Industries

28. Cotton textiles.—The requirements of cotton textiles at the end of the Third Plan have been estimated at 9,300 million yards, inclusive of 850 million yards for export. Out of the total target for cotton cloth of 9,300 million yards, 3,500 million yards have been allocated as the share of the decentralised sector (handloom, powerloom and khad). To achieve the additional production in the mill sector, it is envisaged that about 25,000 automatic looms will have to be installed during the Third Plan. It will also be necessary to increase the active spind/eage of the mills to about 16.5 million as compared to 12.7 million at the end of the Second Plan.

- 29 Rayon and staple fibre —The programme for the rayon and staple fibre industry envirages expansion of capacity from about 100 million lb (52.3 million lb of rayon filament and 48 million lb of staple fibre) at the end of the Second Plan to 215 million lb (140 million lb of rayon filament and 75 million lb of staple fibre)
- 30 Paper and neusprint—To meet the estimated demand of 700,000 tons of paper and paper board by 1965-66, it is proposed to increase the capacity of the industry from the present level of 410,000 tons to 820 000 tons by the end of the Third Plan period. In the case of newsprint, expansion from 30,000 tons to 150,000 tons has been proposed. With increasing pressure on conventional raw materials, expansion of the paper and newsprint industry will have to depend heavily on the use of bigasse during the Third Plan period.
- 31 Suçur The target envisaged for the Third Plan for the sugar industry is 35 million tons per year. Cooperative enterprises are expected to make further progress under this industry during the Third Plan and it is estimated that their share of the overall mill capacity will rise to about 25 per cent. The production of sugar in the country is expected to meet the demand in full and the surplus will be exported.
- 32 Vegetable oils—The overall production of vegetable oils, inclusive of coconut oil, is expected to amount to 2.9 million tons by 1985-66. The programme for the Third Plan includes the expansion of production of cotton seed oil to one lakh tons and an increase in the production of oil from solvent extraction of oil cakes from its current level of 40,000 tons to about 160,000 tons per annum.
- 33 Overall increase in industrial production—The general index of industrial production is expected to reach in 1965-66 the level of 329 (1950-51=100) as against 194 provisionally estimated for 1960-61 and 139 for the last year of the First Plan.

11

MINERALS AND OIL

REVIEW OF PROGRESS

During the first two Plan periods, attention was focussed mainly on the systematic and detailed investigation of the country's resources of important minerals with a tiest to assessing more accurately both their quantity and quality and on the adoption of measures to ensure their systematic development and conservation. These measures began to bear fruit during the Second Plan and in the past few years the

cutput of certain minerals, such as coal, iron ore and bauxite, has increased substantially.

- 2 Coal —The Second Plan set a target of production of 60 million tons for coal, that is, 22 million tons over the level of production in 1955. Of this addition 12 million tons were allocated to the public sector, the balance of 10 million tons being left to be raised by the private sector from their existing workings and areas immediately contiguous to them. While the expansion of production from existing workings in both the public and the private sectors did not present any serious difficulty—the target set therefor had been more than fulfilled—the establishment of additional production from new collibries made the acquisition of coal bearing areas, detailed prospecting and blocking out of reserves were time consuming. This and the shortage of expenienced technical personnel for supervisory posts and the initial difficulties in securing foreign exchange resulted in rather slow progress during the acity years of the Plan. As against a target of 60 million tons, production has fallen short of the target, both the public and the private sectors have established capacity for achieving a rate of production commensurate with the targets set for them, and the production during the last quarter of 190-0-11 is equivalent to an annual rate of well over 60 million tons. The production of coal increased from 22.31 million tons in 1950 to 38.23 million tons in 1955 and reached 54.62 million tons in 1960-61.
- 3. The passing of the Coal Mines (Conservation and Safety) Act, 1952 gave Government powers to enforce conservation measures flowing which was till then compulsory from the point of view of safety was extended to cover conservation. Measures were taken to regulate the output of coking coal with a view to conversing the limited reserves available. Washing being one of the measures for conservation, the Second Plan provided for additional washing capacity of 64 million tons to be achieved by the establishment of 4 central washeries and the installation of a washing unit in the Durgapur steel plant. A capacity of 2.4 million tons has been set up and the rest of the capacity will be established during the early years of the Tabid Plan.
- 4. Other measures of conservation adopted included a phased programmic for the substitution of coking coal consumed by non-coential consumers by non-coking coal and provision for the grant of a special subsidy to mines which are handicapped by adverse factors, such as gassiness, depth of working, etc. Besides the above measures,

steps are being taken for the analgamation of small and uneconomic collieries as recommended by the Committee on Amalgamation of Small Collieries.

5. Mineral oil — In view of the great need to establish indigenous some year of the nucleus of an organisation for oil exploration was set up by Government towards the end of the First Plan period. The Second Plan provided for intensification of the effort and the building up of an adequate organisation for it. The Oil and Natural Gas Commission was converted into a statutory body. It undertook geological surveys, geo-physical investigations and exploratory drilling for oil in the Punjab, Cambay, Utar Pradesh and Upper Assan.

Though there is at present no production of oil in the country, except for a small quantity obtained from the Digboi area in Assam, an annual production of 2.75 million tons will soon be obtained from the Nahorkatiya oilfield which is being developed by the Oil India Limited. The crude oil is to be piped to two new refineries, which are being built in the public sector near Gauhati (Assam) and Barami (Bibar) with a capacity of 0.75 million tons and 2 million fons respectively

- 6. Mineral production—During the last ten years the value of mineral production increased from about Rs. 83 crores in 1950 to about Rs. 159 crores in 1960. The most marked increase is in the case of iron ore, the output of which rose from about 2.97 million tons in 1950 to about 10.5 million tons in 1960. This increase in supply is due to the expansion of steel production in the country and the development of an expoit trade demand for iron ore. Other significant increases are in regard to coal (from 32.3 to 51.8 million tons), limestone (2.9 to 12.5 million tons), chromate (17,000 to 99,000 tons), bauxite (64,000 to 377,000 tons) and syspam (204,000 to 982,000 tons).
- 7. Mineral surveys.—With the expansion during the first two Plan periods of the Geological Survey of India and the Indian Bureau of Mines, geological mapping was extended to cover new areas, and some important mineralised areas were mapped on larger scale maps. In addition, detailed prospecting was undertaken for coal in certain selected coallields, for fron ore and for non-ferrous metals, specially copper, lead and zinc in Khetri (Rajasthan), Sikkim and Zawar (Rajasthan). Besides proving the reserves in the areas investigated in detail, the investigations carried out during the last ten years have shown that the available reserves of some of the minerals are much larger than estimated hitherto.

PROGRAMME FOR THE THIRD PLAN

- 8. The Third Plan envisages intensive efforts to explore the country's mineral resources with a view to-
 - (a) locating workable reserves of minerals and metals, the requirements of which are being met today either wholly or partly by imports;
 - (b) proving additional reserves of minerals like iron ore, bauxite, gypsum, coal, limestone, etc., which can be developed to meet the expanding requirements of the economy, and
 - (c) proving reserves and establishing new mines for the production of minerals like iron ore which can be exported.

These objectives call for intensification in the coming years of geological mapping, a wider adoption of geo-physical and geo-chemical methods, and detailed prospecting of promising mineral occurrences so as to assess their extent and quality with a view to development.

COAL

9. Based on the target set for the different industries which consume coal and the traffic expected to be carried by the railways, the demand for coal in the last year of the Thurd Plan is estimated at 97 million tons. This target will require production to be stepped up by 37 million tons over the Second Plan target of 60 million tons. Though the latter has not been fully achieved, capacity commensurate with the target set for the Second Plan has been realised.

The increase required during the Third Plan is of such magnitude that it will necessitate the opening of a farge number of new mines, particularly in the public sector, both in the areas which are already developed and in entirely virgin areas. This will call for a great deal of effort and of eapital investment. Actual production of coking coal of superior grades (Selected grades and Grade-1) during 1960 was about 13 million tons and that of blendable eoal about 2 million tons. On the basis that a part of the requirements of metallurgical coal industries will be met by blendable coal, the net minimum additional output of coking coal and blendable coal required by the end of the Third Plan period is estimated at about 10 million tons and 2 million tons respectively. The net additional output of superior grades of non-coking coal required for the railways and other industries is estimated at about 10 million tons. The most important aim in the coal programme during the Third Plan is to ensure that the necessary quantities of coking and blendable coals are made available to the steel plants and merchant cokeries and of superior grades of non-coking coal to the railways and other industries which necessarily require them.

- 10 Allocation of additional production—Bearing in mind the primary objective of the coal programme set out above, the capacity of the private sector to expand production from their existing mines and areas nearby and Government's policy which reserves to the public sector the establishment of new mines, 20 million tons of the additional production has been allocated to the public sector and 17 million tons to the private sector
- 11 Public sector programme.—Additional production in the public sector to the extent of 3 million tions is to be obtained by the expansion of the Singatem collieries in Andhra Pradesh. The balance of 17 million tons is to be raised by the National Coal Development Corporation
- 12 The major portion of the additional production in the private sector (11 million tons) will be from existing mines and the balance from new sinkings in existing leasehold areas.
- 13 Conservation—Viewed against requirements of coking coal for step production, the reserves of coking coal as known at present are rather interd—being only of the order of 2,800 million tons. On the other hand there are large reserves of high grade iron ore. This struction calls for the adoption of measures which will, on the one hand, conserve the limited supplies of coking coal—measures such as stowing, washing and blending, which have the effect of extending the life of the receives—and on the other, economise its consumption. In view of the increasing difficulty experienced in recent years in stepping up the output of better grades of coal, there is urgent need for economy in their use. The types, grades and sizes of coal that should be supplied to different industries have been laid down after careful study of technical assects by the Fuel Efference Commutate of the Coal Council
- 14 Stowing.—Stowing as a measure of conservation will need to be intensified during the Third Plan, as a part of the additional production is to come from custing mines by depillaring operations. The Plan envisages the establishment by the Coal Board of 7 ropeways, 4 in the Jharia coalifield and 3 in the Ramganj coalifield, for the collection and transport of sand from the Damodar river to convenient points near groups of collieries
- 15 Transport Concentration of coal production in the Bengal-Bihar coalfields poses serious problems of transport. While the size of the problem can be mingated to some extent by increasing production in outlying coalfields, the magnitude of the coal production programme during the Third Plan will further increase the pressure on the Railways for moving coal to distant consumers. The capacity of the Railways is being increased but, with a view to reducing pressure on rail transport.

other measures such as increased movement by road, particularly in the case of consumers situated near coalfields and stepping up movement by the rail-cum-sea route have also to be adopted. Proposals for giving effect to such measures are under examination.

- 16. Coal washeries.—The expansion of steel production envisaged in the Third Plan is estimated to require an additional washing capacity of 12.7 million tons in terms of raw coal. Additional capacity of 3.2 million tons will come from the expansion of washeries already in existence or in course of crection, the balance of the capacity needed being obtained from new washeries which it is proposed to establish. The Plan also includes washeries for non-coking coal required for use by the Railways. It is proposed to undertake detailed investigations of the washability characteristics of non-coking coal drawn from different collieries and a study of the economics of washing such coal.
- 17 Neiveli Lignite Project —The project for the integrated development of the lignite deposits at Neiveli in South Arcot district (Madras) included in the Second Plan envisaged
 - (1) an annual output of 3.5 million tons of raw lignite to meet the requirements of—
 - (a) a thermal power plant with a capacity of 250 M W.,(b) a fertiliser plant for the production of 70,000 tons of
 - fixed astrogen in the form of urea, and
 - (c) a briquetting and carbonisation plant for producing 380,000 tons of carbonised briquettes; and
 - (u) a clay washing plant for the production of 6000 tons per annum of white china and ball clay

The Third Plan envisages (a) the completion of the programmes included in the Second Plan, (b) expansion of thermal power capacity by 150 M W., and (c) stepping up of the output of lignite from 3.5 million tons envisaged in the Second Plan to 4.8 million tons in order to meet the fuel requirements of the expanded thermal power plant

18 Mineral oil.—The programme relating to mineral oil envisages (a) exploitation by the Oil India Limited of the reserves proved in their leasehold areas in Assam, (b) further exploration by the Oil and Natural Gas Commission to locate and prove reserves of oil and establish additional production, (c) the completion of the refineries under construction at Gaubati and Baraum respectively, and establishment of a new refinery in Gujarat with a capacity of about 2 million tons, (d) establishment of picelines for the trasport of pstroleum products, and (e) establishment of facilities for the distribution by

Government agency of the products of the public sector refineries and the deficit products imported on favourable terms.

- 19 The programme for the Third Plan envisages a total expenditure of Rs 115 crores as against only Rs. 26 crores in the Second Plan and will cover most of the promising sedimentary areas in the country. including the Cauvery basin. It has also been decided to invite foreign oil explorers to join the quest for oil in India, subject to mutually acceptable terms. An agreement has been negotiated with the Burmah Oil Company and a new basis for collaboration in the exploration and production of oil in Assam has been arrived at. By the end of the Third Plan period indigenous production of crude oil is likely to reach a level of 6.5 million tons.
- 20 Iron one -On the basis of the target for iron and steel envisaged by the end of the Third Plan, the iron ore requirements are estimated at 20 million tons, and requirements for export will be, of the order of 10 million tons. To meet these requirements a capacity target of 32 million tons has been fixed for iron ore in the Third Plan.

The Plan envisages the completion of the Kiriburu iron ore project which is expected to start production in 1963 and the development of the iron ore deposits in the Bailadila area of Madhya Pradesh for an annual production of 6 million tons.

- 21 Other nuneral projects .- Among the other mineral projects included in the Third Plan are :
 - (1) Exploitation of the copper deposits in Khetri and Daribo (Raiasthan) and the establishment of a smelter with a capacity of 11,500 tons of electrolytic conner.
 - (a) Exploitation of the copper deposits in Rangpo (Sikkim) and the establishment of a concentration plant.
 - (iii) Exploitation of the pyrites deposits in Amjor (Bihar) for the manufacture of 84,000 tons of elemental sulphur.
 - (10) Development of the diamond fields in Panna (Madhya
 - Pradesh).
 - (v) Further exploration and exploitation of the gold fields in Kolar and exploration in Hutti
- 22. Mineral surveys.-For the implementation of the programme of intensified mineral investigation, the Plan envisages further expansion of the Geological Survey of India and the Indian Bureau of Mines. The programmes of these organisations include detailed work on coal, iron ore, manganese ore, chromite, bauxite, limestone, copper, lead and zinc and manganese ore in different parts of the country.

CHAPTER 16

TRANSPORT AND COMMUNICATIONS

THE rapid development of the economy over the past decade has placed heavy demands on the transportation system. Although considerable expansion in transport capacity has taken place during the first two Plans, it is only with difficulty that the transportation system has been able to meet the growing demands. The railways, in particular have been working under some measure of strain throughout most of the period.

- 2. The main task in the field of transportation in the First Five Year Plan was the rehabilitation of over-aged assets which had been subjected to great strain during the preceding decade. Large amounts had to be set apart for rehabilitation of railway rolling stock and for track renewal as also for replacement of over-aged shipping tonnage and equipment of ports and harbours. In the Second Plan again a large provision had to be made, particularly in the case of the railways, for rehabilitation of over-aged assets. Emphasis in the Second Plan, however, shifted to programmes required to augment line capacity on different sections of the railways and to the procurement of additional rolling stock to meet the increasing demand for railway transport arising from the increased production in the agricultural and industrial sectors of the economy.
- 3. Progress in programmes for the development of transport and communications during the First and Second Plans has been on, the whole satisfactory. Over this period the number of wagons on line on the railways (in terms of four-wheelers) has increased from 222,441 to 341,041, that of locomotives from 8,461 to 10,554 and of coaches (units) from 20,502 to 28,171. Extensive line capacity works have been undertaken by the railways, which include, among others, the doubling of about 1,300 miles of single track and the electrification of about 800 miles. The new lines added to the system have amounted to 1,200 miles; in addition about 400 miles of lines dismantled during the war were restored during the period.
- 4. There has been a large extension in the road mileage. The length of surfaced roads is expected to have increased from 97,500 miles in 1950-51 to 144,000 miles in 1960-61 and that of unsurfaced roads from 151,000 to well over 250,000 miles. The number of goods vehicles on the road has nearly doubled during the period, that is from about 81,000 in 1950-51 to 160,000 in 1960-61.

- 5. The tonnage of Indian shipping increased from about 3.9 lakh GRT in 1950-51 to 9 lakh GRT at the end of the Second Plan. The capacity of the major ports has increased over the period from about 20 million tons to about 37 million tons. Several projects were taken up in the Second Plan which are still under execution and, on their completion, the total capacity of the major ports is likely to be over 45 million tons.
- 6. The capacity of civil air transport has increased considerably since 1953 when the air services were nationalised. The capacity in ton miles offered by the Indian Airlines Corporation has gone up from about 46 milhons in 1953-54 to about 69 milhons in 1960-61 and that offered by the Air India International over the period from 17 millions to 103 millions.
- 7. The originating traffic on the railways has increased from 91.5 million tons in 1930-51 to 154 million tons in 1950-61. The average lead of freight traffic has gone up during the period from 292 miles to 354 miles. Thus, while in terms of tons originating the volume of traffic on the railways has increased over the period by about 69 per cent, in terms of ton miles it has gone up by over 100 per cent. Freight traffic in terms of ton miles carried by road transport is estimated to have increased three-fold over the period. The demand for transport, on the whole, has risen at a substantially faster rate than the increase in national income or the growth of production in any major sector of the economy over the period.
- 8. Coordination of transport: approach in the Third Plan—The Cormittee on Transport Policy and Coordination which was constituted in July. 1959, to advise on long-term transportation policy, and against the background of this policy, to define the role of the various means of transport in the next five to ten years, submitted its Preliminary Report in February, 1961. In the Report the Committee has presented detailed factual material pertaining to road-roil coordination and has raised issues considered important from the point of view of formulating a long-term policy for the country. When the final report of the Committee is available, the programmes for transport in the Third Plan will be reviewed. There are, however, certain general considerations affecting development of transport over the next few years which may appropriately be mentioned at this stage. In the first place, it must be recognised that during the Third Plan, the railways will inevitably have to continue to carry the bulk of traffic in heavy goods like coal, iron ore and other materials for the steel plants, etc. Secondly, while there is a general shortage of transport in the country.

today, which is likely to continue for some time, this will not necessarily preclude competition between rail and road transport over certain routes and in respect of certain commodities. In preparing detailed plans for increasing line capacity over various sections of the railway system, the railways will have to take account of the possible future development of road transport in the regions concerned. Considerations of coordination have still greater importance in regard to proposals for the construction of new railway fines. As in the first two Plans, most of the new lines to be opened in the Third Plan are required either to meet the operational needs of the railways or for the movement of basic commodities like coal and mineral ores. The third consideration pertains to the financial position of the Indian Railways. The Committee has drawn attention to some unfavourable factors affecting the financial propects of the railways which have begun to manifect themselves and has raised the relevant issues for consideration.

9. Alloament for transport and communications in the Third Plan — The amount allotted for the programmes relating to transport and communications in the public sector in the Third Plan is Rs. 1,486 crores, and is distributed between the various programmes as shown in the Table below:

Provision for transport and communications in the Third Plan

progr	rammes	ı							(F	provision
railways								٠.		890*
roads and	road tr	ansport	٠							297
shirping, i	inland v	vater tr	ansport	, ports	and li	ghthou	503			t53**
civil air tr	ansport					٠				55
posts and	telegran	ohs (unc	luding	releptu	oter fa	(vnot				68
lourism										8
broadcasti	no			••	••					7
other tran										8
total	.,									1,486

The estimated costs of certain programmes exceed somewhat the financial provisions mentioned above. Thus, the total estimated cost of the Railways' programme, including stores suspense, is about Rs. 1,325 erores, of the road programmes about Rs. 324 crores, of the major ports Rs. 115 crores and of posts and telegraphs about Rs. 78 erores.

Excludes Rs. 350 crores to be contributed by the railways from their depreciation fund and Rs. 35 crores required by the railways for stores suspense account.

^{**}Includes Rs. 20 crores expected to be contributed by the major ports from their own resources.

- 10. Railways.—The railway development programme in the Third Five Plan has been formulated on the basis of the originating traffic reaching a figure of 245 million tons in 1965-66. Of the total increase of 91 million tons of freight traffic anticipated during the Third Plan, 79.5 million tons are accounted for by coal, steel and the raw materials of steel, cement, iron ore for export and the railways own stores and the remaining 11.5 million tons representing increase in general goods traffic. These estimates are necessarily tentative.
- 11. The programme for rolling stock provides, besides replacement of the over-aged stock, for the acquisition of 90,447 wagons (in terms of four-wheelers), 5,025 coaching vehicles and 1,150 locomotives. The programme for workshops includes, among other works, establishment of production of electric locomotives at Chitatranjan in collaboration with the Heavy Electricals Limited, Bhopal. Provision is also included for the manufacture of diesel locomotives.

The line capacity works provide for doubling over 1,600 miles of single track and such other works as remodelling of yards, opening of crossing stations and provision of crossing loops, etc. The male consideration in formulating the line capacity works is to strengthen the trunk routes and the lines on which traffic in heavy commodities like coal and iron ore is required to be moved in increased quantities in future

- 12. The programme for electrification provides mainly for the completion of work on those sections which were taken up in the Second Plan The only new section which, for the present, is proposed to be taken up during the Third Plan period is that from Mughalsarai to Kanpur.
- 13. The programme of track renewal provides for overtaking a large part of arrears of track renewal by the end of the Plan period. Provision is made for complete track renewal of over about 5000 miles, rail renewals over about 2500 miles and renewal of sleepers over about 2500 miles.
- 14 Provision is made for the construction of about 1200 miles of new lines during the Third Plan period. Besides the new lines carried forward from the Second to the Third Plan, namely, Garlwa Road-Robertsganj, Sambalpur-Titlagarh and Bimalgarh-Kiriburu, the programme provides for the following further new lines: Thund-Kandla, Madhopur-Kathua, Udajpur-Himmatnagar, Delhi avoiding lines, Diva-Panvel-Kharpada with extension to Uran, Patharkandi-Dharmanagar, Guna-Maksi, Ranchi-Bondamunda, Hindumalkot-Sriganganagar, Ghaziabad-Tughlakabad, Bailadilla-Kotavalasa, and

the new line to Haldia Port. Provision is also made for construction of 200 miles of new lines required in connection with the development of the coal industry. In addition certain other lines are under consideration for inclusion in the railway programmes: (i) Mangalore-Hassan, (ii) Bangalore-Salem, (iii) Manamadurai-Virudhunagar, and (iv) the rail link from Sukmda/Daitair mining areas in Orissa to the main line from Kharagpur to Cuttaek.

- 15. It is proposed to provide about \$4,000 new quarters for the staff in the Third Plan in addition to the quarters that will be constructed as part of composte projects. The programme for amenities for staff provides for expansion of medical facilities and improvement in the staff quarters, drainage, water supply and electrification and recreational facilities in workers' colonies.
- 16. The railway development programme in the Third Plan has continued to keep in view the objective of attaining self-sufficiency in regard to the requirements of the railways. To the extent possible efforts will be made in the Third Plan period to manufacture diesel and electric locomotives and other items of equipment which are still being imported.
- 17. Roads.—The road programmes for the Third Plan are being formulated in accordance with the broad objectives laid down in the twenty-year road development plan for the period 1961-81, which has been drawn up by the Chief Engineers of the State and the Central Governments. The broad objective of this plan is that no village in a developed and agricultural area should temain more than four miles from a metalled road and 14 miles from any type of road. Under this plan, the total mileage proposed to be reached by 1981 is 252,000 miles for surfaced roads and 405,000 miles for unsurfaced roads.
- 18. It is roughly estimated that during the Third Plan it will be possible to add about 25,000 miles of surfaced roads to the existing network as against about 22,000 miles added during the Second Plan period. A substantial part of the provision for road programmes is intended for improvement of the existing roads with a view to enabling them to meet the requirements of increasing traffic, particularly heavy vehicular traffic; these include the widening of roads and upgrading their surfaces and providing missing links and bridges, etc. The programme for National Highways in the Third Plan provides for the completion of a number of important road and bridge works earlied forward from the Second Plan and for the improvement of a few sections of the new highways added recently to the National Highways

system, and for the construction of the Vivekanand bridge by-pass near Calcutta and a few missing links on the existing highways. It is proposed to add one more road to the National Highways system, namely, the road from North Salamara to the Brahmaputra bridge with a length of about 100 miles.

- 19. Special consideration is being given to road development in rural areas. Specific provisions have been set apart for this purpose in the plans of several States, apart from the provision available for the development of rural roads under the programmes of local bodies and community development. Efforts are being made to achieve the desired coordination between various agencies responsible for road development in rural areas.
- 20 Road Transport Expansion of commercial road transport in the Third Plan will depend largely on the manufacturing expacity of the automobile industry It is roughly estimated that the total number of commercial vehicles will increase by about 82 per cent from about 200,000 in 1960-61 to 365,000 in 1965-66. The number of goods vehicles will increase over the period from about 160,000 to 285,000 and the number of stage earnages from about 50,000 to 80,000.
- 21. Programmes for the development of Government road transport undertakings in the States are estimated to cost Rs. 26 erores in the Third Plan. It is expected that about 7,500 vehicles will be added to the flosts of these undertakings during the period of the Plan.
- 22. In view of the great pressure on railway transport and the need for coordinated development of various forms of transport, in the course of the Third Plan, it may be necessary for the public sector to extend its activities in the field of transport of goods by road. A number of questions, such as the form of organisation and the scope of the programme, will be considered further in the light of the recommendations of the Committee on Transport Policy and Coordination and in consultation with the State Governments.
- 23. Inland Water Transport.—The programme for the development of inland water transport in the Third Plan has been formulated in the light of the recommendations made in the report of the Inland Water Transport Committee (1959). The cost of the programmes is estimated at Rs 75 crores, which includes Rs, 6 crores in the Central sector and Rs. 1.5 crores in the State Plans, The programme in the Central sector provides, besides the carry-over works from the Second Plan, for a pilot towing project to be undertaken by the Ganga Brahmaputra Board in Sunderbans, for purchase of dredgers and launches for

Sunderbans and Brahmaputra and for setting up of a central organisation to advise on matters relating to inland water transport. In the State sector provision has been made, among other schemes, for the improvement and extension of the West Coast canal in Kerala, improvement of Taldanda and Kendrapara canals in Orissa and for the development of navigational facilities in the Rajasthan Canal.

- 24. Shipping.—The development programme for shipping depends largely on the availability of foreign exchange for this purpose, and of necessity has to be modest at the present stage. A provision of Rs. 55 erores has been made for shipping in the Third Plan. addition, a sum of Rs. 4 crores is likely to be available from the Sbipping Development Fund and the shipping companies are expected to contribute Rs 7 crores from their own resources. A little more than one-half of the total amount is proposed to be spent in the private sector and the balance on the programmes of the two Corporations in the public sector. It is expected that about 57 ships with a tonnage of 375,000 GRT will be acquired during the Plan period. Of the total tonnage, about 194,000 GRT is estimated to be required for replacement of over-aged ships and the balance of 181,000 GRT will be available for addition to the existing tonnage. This will increase the total tonnage available to 1.1 million GRT. About 216,000 GRT will be acquired in the private sector and the remaining 159,000 GRT in the public sector. Of the total tonnage, 132,500 GRT are required for the coastal trade and the remaining 242,000 GRT for the overseas trade. A major part of the programme for coastal shipping relates to the replacement of over-aged ships. The programme for shipping includes provision for four tankers, one for the coastal and three for the over-seas trade.
 - 25. Ports and Harbours.—The main objective in the Third Plan underlying the schemes in respect of the existing major ports is to maintain and improve the facilities already available. It is expected that the capacity of major ports by the end of the Third Plan will be 9 million tons. Two important schemes have been included in the Plan with a view to the maintenance and preservation of the Calcutta Port, namely, the construction of an ancillary port at Haldia and the construction of a barrage on the river Ganga at Farakla. At Haldia, which will be located 56 miles downstream from Calcutta, it is proposed to provide facilities for handling bulk cargo such as coal, iron ce and foodgrains, and also for lightening of general cargo vessels. The barrage on the Ganga is considered vital for the improvement of the draft conditions in the river Hooghly. The programme for the Calcutta Port also provides, among other schemes, for training works

tor improving the Balari Channel. The programme for the Bombay Port includes provision for the dredging of the main harbour channel, modernisation of the Princes and Victoria Docks and expansion of the Ballard Pier etc. At Madras, provision is made for additional ore and coal yards and mechanical equipment for handling iron ore. The programme for Vichakhapatiam provides for the completion of the additional four-berth scheme and the ore-loading installations at the port. At Kandla provision is made, among other schemes, for the completion of two additional berths. The programme for the development of major ports also includes two projects for the upgrading of two minor ports into all-weather ports, namely, Tuticorin and Mangalore.

- 26 The total cost of the port development programme is estimated to be of the order of Rs. 115 crores. This includes Rs. 80 crores for the programme of the major ports, Rs. 25 crores for the barrage at Farakka and Rs. 10 crores for the development of new major ports at Mangalore and Tuticorin.
- 27. The programme for the minor ports included in the Plan is estimated to cost about Rs. 15 cores. The programme has been formulated on the basis of the recommendations of the Intermediate Ports Development Commutee. The capacity of all the minor ports is estimated to increase to about 9 million tons on completion of the schemes included in the Third Plan as against their present capacity of about 6 million tons.
- 28. A provision of Rs. 6 crores has been made for the development of lighthouses and lightships. Among the new schemes included in the Plan is one for a lighthouse tender estimated to cost Rs. 140 laths.
- 29. Civil Aviation Extensive development works were undertaken in the Second Plan at Bombay (Santa Cruz), Calcutta (Dun) Dum) and Delhi (Palam) aurports to facilitate the flights of jet aircraft and these will be completed during the Third Plan period. Priority will be given in the Third Plan to programmes for extension of the existing runways wherever necessary, including the development of an airfield at Madras to facilitate jet operations, and for strengthening and extending the runways at Lucknow, Gaya and Ahmedabad aerodromes, which are alternates for the international airports. Provision has also been made for construction of a number of new aerodromes and air-strips including those required to develop tourist traffic.
- 30. Air Corporations.—The operating fleet of the Air India International at present consists of 3 Boeings and 9 Super-Constellations.

The programme in the Third Plan provides for the purchase of four additional jet aircraft. The operating fleet of the Indian Airlines Corporation at the end of 1960-61 consisted of 54 Dakotas, 5 Skymasters and 10 Viscounts. The programme in the Third Plan provides for the purchase of 4 Viscounts and 25 modern aircraft to replace Dakotas, It is proposed to retain about 10 Dakotas in service at the end of the Third Plan for freight services.

31. Tourism.—A provision of about Rs. 8 crores is made in the Plan for the development of tourism. As in the Second Plan, the programme in the Third Plan concentrates largely on provision of facilities for accommodation and transport. Measures are under consideration for assisting the hotel industry with loans for the construction of new hotels and improvement or expansion of existing ones.

COMMUNICATIONS

- 32. The expansion of industrial and commercial activity in the past ten years has led to a growing demand for communication facilities. Over the period of the first two Plans, the number of postal articles handled in the country increased by about 80 per cent, i.e., from 2,270 million to about 4,054 million. The number of telegrams increased by about 43 per cent, that is, from 2.9 million in 1950-51 to 40 million in 1960-61. The number of trunk calls handled by the Telephone Department increased about five-fold, i.e., from about 7.1 million in 1950-51 to about 34 million in 1960-61. Despite substantial expansion in their capacity, the posts and telegraphs services as also the other communication services in the country have been working under a measure of strand during recent years.
- 33. Posts and Telegraphs.—The cost of the programme of the Posts and Telegraphs Department included in the Third Plan is estimated at Rs. 77.6 ceroes. This includes Rs. 49.6 crores for local similar to the telephone services including trunk cables, Rs. 2 crores for telegraph services, Rs. 11 crores for buildings, Rs. 13 crores for telegraph services, Rs. 11 crores for buildings, Rs. 13 crores for telegraph and the telephone production of the trailway electrification and for demands of the other administrations and Rs. 2 crores for miscellaneous schemes.
- 34. The programme for local telephone service in the Plan provides for about 200,000 new direct telephone connections and in addition for conversion of 50,000 manual lines into auto lines. That for trunk telephones provides for the installation of ten trunk automatic exchanges and a number of additional manual trunk exchanges and about 2000 public call offices during the Plan period. The project

for laying coaxial cables between Delhi and Calcutta and Delhi and Bombay will be completed and provision is made for coaxial cables being laid between Bombay, Madras and Coimbatore and between Bombay and Nagpur, and Delhi and Amritsar.

- 35 The number of telegraph offices in the country will be in-creased from about 6,450 m 1960-61 to 8,450 in 1965-66. Provision is made for the installation on an extensive scale of modern devices like teleprinters and tape relay systems to avoid repeated handling of telegrams.
- 36. The number of post offices in the country will be increased from about 77,000 in 1960-61 to about 94,000 at the end of the Third Plan.
- 37 Other communication services.—The Third Five Year Plan includes provision for setting up a factory for the manufacture of teleprinters. The factory is expected to produce 1,000 teleprinters a year by 1963-64. The Indian Telephone Industries have a development programme in the Third Plan estimated to cost Rs. 2.8 crores. This will enable them to produce by the end of the Third Plan period about 100,000 exchange lines and about 160,000 telephone instruments per annum.
- 38. The programme for the overseas communication services in the Third Plan provides for an increase in the number of radio transmitters from 22 in 1960 to 31 at the end of the Third Plan, and for an increase in the number of telephone transmission circuits from 7 to 10 during the same period. Provision is also made for the introduction on an increasing scale of modern automatic error detection devices and for the development of leased channels and telex services for achieving speed and efficiency of services.
- 39 The programme of the India Meteorological Department provides for further progress being made with the modernisation of equipment at important observatories. The Department also proposes to start a Northern Hemispheric Collection and Analysis Centre in New Delhi to collect, study and disseminate meteorology data for the northern hemisphere. An Institute of Tropical Meteorology will be established at Poona for advanced research and training in tropical meteorology.
- 40. Broadcasting —The main objective of the development programme for broadcasting in the Second Five Year Plan was to extend the available services to as wide an area as possible largely through

internal short wave transmitters and to strengthen the external broadcast services. The objective in the Third Five Year Plan is to make
the internal coverage more effective by expanding the medium wave
broadcast service and by strengthening the arrangements for pre-recording of programmes. The medium wave unternal services which now cover
37 per cent of the total area and 55 per cent of the population will
get extended to include 61 per cent of the area and 74 per cent of the
population of the country. The programme in the Third Plan also
includes provision for further improvement of the external broadcast
services. Among other schemes included in the programme, mention
may be made of a television centre proposad to be set up at Bombay.

41. Provision has been made for expansion of community listening facilities in villages, and it is hoped to provide about 32,000 new sets during the period of the Third Plan. These will be supplemented by sets provided under the community development programme.

CHAPTER 17

EDUCATION: GENERAL AND TECHNICAL

INTRODUCTION

ONE of the major aims of the Third Plan is to expand and intensify the educational effort and to bring every home within its fold so that, from now on, mall branches of national life, education becomes the focal point of planned development. Education programmes embodied in the Third Plan are comprehensive in scope. In this Chapter an attempt is made to outline briefly the major aims in planning general, technical and other specialised education, and to describe some of the leading features and problems of the programmes which form part of the Third Plan.

2 Of all the resources for development, perhaps the most fundamental at the present time is trained manpower. The extent of trained manpower available and the training facilities established constitute a major determinant of the measure of advance which can be achieved in different directions. As the economy grows, there has to be emphasis not only on numbers but also on quality and experience. Problems of producing the requisite trained manpower have to be seen in their broader context. On the one hand, they bear closely on the character of education at each stage in school and college and on life in the home; on the other, they encompass the entire system of management and organisation in industrial and other undertakings, and the lines along which research is undertaken and its results applied. Advances in the field of science and technology and in specialised fields of training ultimately call for and are contingent on fundamental changes in the system of general education. There is, thus, at every step an intimate connection between general education and technical and other specialised forms of education. It is important to see the problems of education as a whole in all their interconnections, for, in the existing conditions in India, more than ever before, programmes of education lie at the base of the effort to forge the bonds of common citizenship, to harness the energies of the people and to develop the natural and human resources of every part of the country. Developments of the past decade have created a momentum for economic growth; yet, there are large deficiencies in the sphere of education which must be removed speedily if progress is to be sustained and enduring.

I

GENERAL EDUCATION

- 3. In the field of general education the main emphasis, in the Third Plan will be on the provision of facilities for the education of all children in the age-group 6—11, expansion and improvement of the teaching of science at the secondary and university stages, development of vocational and technical education at all levels, expansion and improvement of facilities for the training of teachers for each stage of education, and increase in scholarships, freeships and other assistance. There will be special concentration on the education of girls and the existing disparities in levels of development in education between boys and girls will be substantially reduced. All elementary schools will be oriented to the basic pattern. Reorganisation of university education along the lines of the three year degree course will be completed, and facilities for post-graduate and research work will be further expanded and improved.
 - 4. Over the decade 1951—61, the number of students increased from 23.5 million to 43 5 million. The increase in the number of pupils in the age-group 6—11 was 79 per cent, in the age-group 11—14, 102 per cent and in the age-group 14—17, 139 per cent. The proportion of children in these groups attending school rose respectively from 43 to 61 per cent, 13 to 23 per cent and 5 to 12 per cent. In the course of the Third Plan, the total number of pupils at school is expected to increase by 20.4 million.

During the first two Plans, the number of schools increased by 73 per cent from 230,555 to 398,200, increase in the number of primary schools being 63 per cent, in middle schools 191 per cent, and in high schools 128 per cent. In the Third Plan the total number of schools will go up by about 24 per cent to about 494,500.

There has been a large increase in the number of students in universities and colleges, the total enrolment for arts, science and commence courses being 360,000 in 1959-11, 634,000 in 1959-15 and abour 900,000 in 1960-61. During the Second Plan, for the country as a whole, the proportion of students taking science courses increased from 33 per cent to about 36 per cent. In some States progress was specially marked, but there are others where there are still considerable lags. The Third Plan envisages that of the increase of 400,000 students at the university stage, about 60 per cent should be in respect of science classes, bringing the proportion of students taking science courses to over 42 per cent.

OUTLAYS

5 The Table below shows the distribution of outlay on schemes of general education during the First, Second and Third Plans:

Distribution of outlays on education

		amo	ount (Rs. o	percentage			
sub-head		First Plan	Second Plan	Third Plan	First Plan	Second Plan	Third Plan
elementary education		85	87	209	63-9	41.9	50-0
secondary education		20	48	88	15-1	23-1	-21-1
university education		14	45	82	10.5	21-6	19.6
other programmes .)						
social education	{	-	4	6		1.9	1.4
physical education	}	14			10-5		
and youth welfare	1		10	12		4.8	2.9
others]		10	11		4.8	2.6
total		133	204	408	100.0	98-1	97.6
cultural programmes		•	4	10	_	1.9	2-4
grand total		133	208	418	100.0	100.0	100-0

In addition to the provision under the head Education, resources to the extent of Rs. 37 crores are expected to be available under the community development programme and about Rs. 42 crores under the programmes for the welfare of bockward classes, thus bringing the total provision for general education in the Third Five Year Plan to Rs. 497 crores as against Rs. 250 crores during the Second Plan. It is estimated that over the Third Plan period maintenance of educational institutions will involve a total expenditure of about Rs. 700 crores as against Rs. 375 crores in the Second Plan. The contribution from non-government sources towards the development of education would be in addition to the above outlays.

6 Pre-school education — The Third Plan provides for setting up six training centres for bal sevikas, improvement of existing Balwadis, opening of new Balwadis, etc. In the programme for education Rs. 3 crores have been allotted for child welfare and allied schemes at the Centre and about Rs. I crore in the States in addition to other sources available under the community development and social welfare programmes.

[&]quot;The outlay on Cultural programmes in the First Plan was included under item 4—"other programmes".

ELEMENTARY EDUCATION

- 7. Primary education.—One of the main aims of the Third Plan is to provide facilities for the education of all children in the age-group 6—11 to be followed by extension of education for the entire age-group 11—14 during the Fourth and Fifth Plans. The principal problems in providing facilities for the entire age-group 6—11 in the course of the Third Plan arise from the following factors:
 - (a) difficulties of bringing garls to school in sufficient numbers;
 - (b) extreme backwardness of certain areas and certain sections of the population in the matter of education; and
 - (c) 'wastage' due to parents taking away children from schools as soon as they are able to add to the family income, so that more than half the children do not reach Class IV, thus falling to gain permanent hieracy.

Special programmes like provision of quarters for women teachers, special allowances to women teachers working in rural areas, condensed educational courses for adult women so as to increase the supply of women teachers, stipends for women teacher trainees, attendance prizes and scholarships have been included with a view to providing preater facilities for the education of girls. Scattered habitations such as hilly tracts and far flung rural areas present certain obvious difficulties; in these it will be necessary to provide additional facilities, even though these will be relatively more expensive. Introduction of compulsion, appointment of trained and qualified teachers, improvements in methods of teaching, greater understanding on the part of parents of the desirability of letting their children remain at school, and the planning of school holidays, so that they coincide with the harvesting and sowing seasons, are among the steps to be taken to reduce the incidence of 'wastage'.

8. The programme for extending education to all children in the agr-group 6—11 is of such crucial importance that financial considerations as such should not be allowed to come in the way of its successful execution in any State. There may, however, be other practical limitations which may be more difficult to overcome in a short penod. Taking all factors into account, it is at present estimated that, by the end of the Third Plan, about 90 per cent of the boys and 62 per cent of the pirst will be at school, the overall proportion for the age-group 6—11 being 76 per cent. In the course of the Third Plan, about 15.3 million additional children will come into schools, of whom 8.6 million are likely to be girls. Differences in levels of development between States will be narrowed to some extent, but they will still be quite considerable.

- 9. Middle school education.—During the decade 1951—61, the number of children at school in the age-group 11—14 doubled, while the number of girls increased nearly threefold. Nevertheless, at the end of the period, as compared to 34 per cent of the boys, only about 11 per cent of the girls were at school. The Third Pian envisages almost a doubling of girls at achool as against the total increase for this age-group of about 34 per cent. The disparity between boys and girls will, however, remain a marked feature, for, against 40 per cent of the boys at school from this age-group, the proportion of girls is likely to be less than 17 per cent.
- 10 Education for the age-group 6—11.—For practical and administrative reasons, the programme of education for the age-group 6—14 visualised in the Constitution has been divided into two stages, 6—11 and 11.—14. If the entire age-group 6—14 is considered together, over the past far years, the proportion of the total population at school from this age-group has ness from 32 to 49 per cent. In the case of boys the proportion has risen from 32 to 49 per cent. In the case of boys the proportion has risen from 46 to 65 per cent and in the case of girls from 18 to 31 per cent. At the end of the Third Plan, the proportions for girls and boys respectively being 46 per cent and 73 per cent. These figures provide a measure of the task that remains to be carried out during the Fourth and 75th Plans.
- 11. Basic education.—During the Third Plan it is proposed to convert about 57,600 schools into basic schools, onent existing schools to the basic pattern, remodel all transing institutions along basic lines, establish basic schools in urban areas and link up basic education with the development activities of each local community.
- 12 Training of teachers.—At the end of the Second Plan elementary school teachers were being trained in 1,307 institutions of which about 70 per cent were already organised on the basic pattern. By the end of the Third Plan the number of training institutions will increase to 1,424 and all of these will impart training on basic lines, their enrolment rising from 135,000 in 1960-61 to about 200,000 in 1965-66. In a number of training schools extension departments will be established for improving the quality of teaching in schools in the neighbourbood.
- 13. Community effort.—Provisions made in the plans of States need to be supplemented by local community effort in programmes such as organisation of enrolment drives, provision of mid-day meals, etc. In several States encouraging results have been achieved in the mobilisation of local resources, and it is expected that local support will be forthcoming in even greater measure as Panehayati Raj institutions are established in different States.

Several States have provided in their plans for mid-day meals for children attending schools. Although the programmes at present are somewhat limited on account of financial considerations, it is suggested that State Governments should endeavour to provide for it, at any rate wherever local communities come forward to take the due share in it.

SECONDARY EDUCATION

- 14. Development of the economy and the large increase in the number of secondary schools and in the number of students in the age-group 14-17 enrolled in them have altered the character of the demands which secondary education is called upon to meet Secondary schools have to be so reorganised that they provide a diversified educational service to pupils according to their needs. In the middle and lower grades of many branches of economic life, in administration, rural development, commerce, industry and the professions, the requirements of trained manpower have to be met after the necessary training by products of secondary schools. The programme for the reorganisation and improvement of secondary education, which has been implemented in recent years, is designed both to enlarge the content of secondary education and to make it a self-contained unit within the educational process. Among the measures envisaged are the conversion of high schools into higher secondary schools, development of multipurpose schools with provision of a number of elective subjects. expansion and improvement of facilities for the teaching of science. provision of educational and vocational guidance, improvement of the examination and evaluation system, enlargement of facilities for vocotional education, increased facilities for the education of girls and the backward classes and encouragement to merit through scholarships. Reconstruction along these lines involves a major revision of the secondary school curriculum, introduction of new techniques and procedures and changes in the scheme of teacher education
 - 15. Over the past decade the number of children enrolled in classes IX to XI increased from about 1.2 to 2.9 million. At the end of the Third Plan the number will rise to about 4.6 million. Although the number of girls at school will be nearly doubled, their proportion in the age-group as a whole will remain low, being about 7 per cent as compared to about 24 per cent in the case of boys.
 - 16. A few of the more important measures proposed in the Third Plan with a view to improving and strengthening the system of second-ary education may be briefly mentioned. The number of higher secondary schools will increase from 3,121 at the end of the Second Plan to 6,390. In the programme for multipurpose schools, which provide a number of elective subjects in addition to the academic course,

the main aim will be to strengthen the 2,115 schools which were set up by the end of the Second Plan, the programme of expansion being limited to 33 in ew schools. Four regional training colleges are to be established for preparing teachers for multipurpose schools. To provide guidance in multipurpose schools, it is proposed to strengthen the existing State bureaux of educational and vocational guidance. To improve science teaching, various measures are proposed to be taken, such as review of the existing science syllably, preparation of teachers' handbooks, students' manuals and science tetrbooks, augmenting the supply of science teachers, training of laboratory assistants, standardisation of designs of science apparatus, etc. In addition to providing general science in all the secondary schools will have science also as an elective subject. Programmes relating to examination reform will be earned further

17 The number of training colleges will be increased from 236 in 1960-61 to 312 in 1965-66. Steps will also be taken to reorganise and strengthen the training programme in these institutions in order to align it with the current needs of secondary schools. To provide in-service training facilities for secondary school teachers, the number of extension centres which were established during the Second Plan at 54 selected training colleges will be increased.

UNIVERSITY EDUCATION

- 18 With the expanding base at the elementary and secondary levels, the demand for higher education has greatly increased. The number of universities has increased from 27 in 1950-51 to 32 in 1955-56 and to 46 in 1960-61. About a dozen more universities are likely to be added during the Third Plan. The number of colleges, other than intermediate colleges, has risen during the Second Plan from 772 to 1,050 and is expected to increase by 70 to 80 colleges each year during the Third Plan. The University Grants Commission has stressed that if deterioration is to be avoided, increase in the number of students at the university stage should be accompanied by corresponding expansion of physical and other teaching facilities.
- 19. In the Third Plan larger faculties are being provided for diverting students to vocational and technological education. However, the problem is one of large dimensions and, even after taking into account these facilities, the numbers of those seeking admission to higher education courses in arts, science and commerce will be large, and suitable criteria for selection will have to be adopted. In addition to the provision in the Plan for expansion of facilities for higher education, proposals for exening colleges, correspondence courses and the

award of external degrees are being considered. The programme for expanding facilities for science education during the Third Plan will involve larger provision of scientific equipment, appointment of more science teachers and grant of scholarships for meritorious science students. Universities and post-graduate departments of colleges will be assisted in the development of post-graduate studies and research, special emphasis being placed on science education. Schemes introduced in the Second Plan for increased facilities for women students, development of Rural Institutes and introduction of the three-year degree course will also be continued

GIRLS' EDUCATION

- 20 Some aspects of the problem of girls' education at different striges have been touched upon carlier. There are a few broader aspects of the subject which should be mentioned. The census of 1961 has shown that as against a literacy rate of 34 per cent for men, only about 13 per cent of the women are literate. At the end of the Third Plan, the disparity between boys and girls, although somewhat reduced, will still be considerable. By far the most important objective in the fleid of education during the Third Plan, the facilities for the education of girls at different stages of school education. Even to achieve the estimates suggested in the Third Plan, the massive effort will be needed throughout the country, and more specially in those States where the education of girls has seriously lagged behind.
- 21. It is estimated that of the resources available under the Plan for the development of education, about Rs. 115 cores will be devoted to the education of girls, of which about Rs. 114 crores are for education at the primary and middle school stages. Some provision has lose been made for special schemes intended to support the general programme for girls' education. It is suggested that in implementing the various provisions made for girls' education in their plans, States should keep in view the detailed recommendations contained in the Report of the National Committee on Women's Education. Special emphasis must be fald on creating suitable conditions for encouraging parents to send their daughters to schools, educating public opinion, increasing the number of women from fural areas who will take up the vecation of teaching and inducing women from urban areas to accept posts of teachers in rural schools. It is proposed to evaluate carefully from year to year the progress made in implementing the programme for girls' education and to take such further measures as may be needed for realising the targets set for the Third Plan. In the field of girls' education, it is specially recessers to study closely such suecessful methods as may be evolved in different parts of the country

and to make such experience available generally. In drawing up annual plans also, care should be taken to see that the programme for guts' education is not held back for lack, of financial resources and that the social and organisational limitations which impede progress at present are climinated as early as possible.

SCHOLARSHIPS

22. In addition to Rs 18 crores which will be spent annually to maintain the level of expenditure on scholarships reached in 1960-61, a sum of Rs, 37 crores will be available under the Third Plan for scholarships Besides this, there will be research scholarships and fellowships provided by the University Grants Commission, and scholarships in fields such as activative to the school for search.

In view of the importance attached to scholarships in the Third Plan, it is suggested that State Governments and the Central Ministrice concerned should review their existing schemes with the object of ensuring that, subject to continued good performance, the rules under which the scholarships are given do, in fact, enable promising students in need of assistance to complete their education and that, ordinarily, help is not discontinued at intermediate stages. In the case of students drawn from the economically weaker sections, the aim should be to ensure adequate prevision for the numbers forthcoming and also for ensisting an increasing proportion to reach the higher stages in education. Categories where personnel are in short supply should be carriedly identified in each State and an attempt made to select promising students at the post-matriculation stage and assist them yith scholarships and stipends during the entire period of training. Such candidates should have before them the prospect of assured employment and should accept, on their part, the obligation to serve for prescribed periods at the end of their training.

SOCIAL EDUCATION AND ADJUST LITERACY

23. Social education comprises literacy, health, recreation and home life of adults, training in citizenship and guidance in improving economic editiency. In the last analysis, under democratic conditions, the success of planned development depends on the spread of social education and a progressive outlook and the growth of a sense of shared citizenship. Yer, the educational aims of agriculture, community development, health and other welfare programmes are among the most difficult to realise. Over the past decade, in several directions there has been a measure of progress, as in the development of community centres, reading rooms in villages, organised activities on

OTHER EDUCATIONAL PROGRAMMES

25 The Plan outlines a number of other educational programmes to be implemented during the next few years. These include improvement in the social and economic circumstances of teachers, research in educational problems, examination reform, production of textbooks and the development of Hudi and Sanskri The Plan also provides for physical education, development of sports and youth welfare activities and expansion of library services.

CULTURAL PROGRAMMES

26 A number of important schemes for cultural development initiated during the First and Second Plans will be further expanded. These include the development of the Lalit Kala Akademi, the Saltiya Akademi and the Sangeet Natak Akademi, the National Museum and the National Gallery of Art, development of museums and schemes of the Department of Archaeology

NATIONAL INTEGRATION

27. Educational institutions have a vital role to play in bringing about national integration and social cohesion among the younger generation. The school programmic should be designed to awaken in the pupils an awareness of national oneness. It has to be supplemented by other activities which will enable the students to gain first hand knowledge of the rich and composite culture of the country.

11

TECHNICAL EDUCATION

MANPOWER PLANNING

Rapid economic development calls for the reorganisation and expansion of existing institutions, development of large numbers of new institutions, special measures for obtaining and training teachers and instructors, introduction of new techniques for intensifying training and shortening the periods needed, expanded facilities for imparting practical training and developing new ways of making use of trained personnel as a scarce key resource. In manpower planning the economy has to be viewed as a whole, the entire range of facilities and possibilities available in all undertakings, whether public or private, being deemed to be at the service of the community.

2. In each field personnel requirements have to be estimated carefully and over a long period. This calls for improved statistical information and development of techniques of manpower assessment. Estimates of personnel requirements have necessarily to be reviewed from

time to time in the light of changing needs and experience. In every sector and within each organisation, manpower planning must be an integral part of the economic plan.

- 3. With a view to providing a broad perspective of requirements of trained manpower for economic development in different fields, arranging for facilities for advanced training in manpower planning, and developing new methods, it is proposed shortly to set up an Institute of Applied Manpower Research.
- 4. In many fields, training programmes which form part of the Third Plan, are designed to produce trained workers for the still more intensive development envisaged in the Fourth and later Plans. There are large areas in which personnel with adequate experience will not be available in sufficient number. In these fields, while making the maximum use of the available indigenous personnel, there should be no hesitation in taking advantage of technical assistance programmes and other sources for obtaining such highly trained personnel as may be needed.
- 5. Requirements of personnel are commonly reckoned in terms of assumptions and possibilities based on past or current experience, and unforescen demands will continue to be thrown up on account of the rapid technological changes within the country and abroad and the growing needs of the economy. The present estimates are, therefore, likely to need upward revision. It will be of particular importance during the Third Plan to re-assess the requirements in different fields from time to time and to take a view of these requirements, not merely for the Fourth Plan, but also for the Plath. Plan.
- 6. Requirements of engineers and technicians may be considered at three principal levels—graduates, diploma holders and skilled cralismen. On present estimates, 51,000 additional engineering graduates are likely to be required for the Third Plan compared to about 29,000 in the Second Plan. The demand in the Fourth Plan is estimated at about 80,000. Additional requirements of diploma holders in engineering and technology in the Third Plan are estimated at about 100,000 compared to about 56,000 in the Second Plan. Estimates for the Fourth Plan are at present placed at about 125,000.

utilisation of the available physical facilities, reduction of wastage and promotion of research. These programmes account for Rs. 142 crors or 25 per cent of the provision for schemes of education in the Third Plan as against 13 and 19 per cent respectively in the First and Second Plans For the development of industrial training institutes, the National Apprenticeship Scheme, evening classes for industrial workers and the training of craft instructors, the Third Plan provides Rs. 49 crores.

8. The following Table summarises the progress achieved so far and programmes for the Third Plan:

Engineering colleges and polytechnics-intake and outturn

			legree courses		diptoma courses			
year	ŕ	number of insti- tutions	admission capacity	outturn	number of insti- tutions	admission capacity	outturn	
1950-51		49	4,120	2,200	86	5,900	2,480	
1955-56		65	5,890	4,020	114	10,480	4,500	
1960-61		120	13,860	5,700	196	2,557	8,000	
1965-66		117	19,140	12,000	263	37,390	19,000	

The additional colleges to be set up in the Third Plan include 7 regional engineering colleges with an admission capacity of 250 students each. These will also provide for training in special branches of engineering such as mixing, metallurgy, chemical engineering, etc., for which personnel in larger numbers will be required in the Fourth Plan. Provision has also been made for part-time and correspondence courses in engineering and technology.

9. Advances in science and technology emphasise the need for the studies of the technological institutions of basic sciences, such as mathematics, physics, chemistry, éte. This consideration has been stressed in various leading institutions imparting technical education. Facilities for postgraduate studies and research in engineering and technology are being enlarged. Additional Incidities for special courses will be provided in printing, management studies, industrial engineering, commerce, and forge and foondry engineering. Two All-India Institutes of Management and a National Institute for Training in Industrial Engineering will also be set up. Other schemes for which the Third Plan provides are the introduction of the five-year integrated degree course, increased hostel facilities, strengthening of Boards of Technical Education in the States, development of Art education, expansion of Cacilities for practical training and establishment of junior technical schools and technical institutions for girls and women.

about 106,000 registrations. Of the number registered 66,000 are engineers and technologists. The "scientists' pool" provides for highly qualified scientists and others, especially those returning to India from foreign countries, and has so far assisted the selection of 653 scientists and technologists. The number of scientific personnel has increased in the Second Plan from 23,300 to 37,500. Facilities for science education at the secondary and university stages will be considerably expanded during the Third Plan. At the University stage facilities will be provided for additional enrollment of 230,000 against a total of about 400,000 and out of 27,000 teachers required for colleges in the Third Plan, as many as 17,000 will be scientists.

OTHER PERSONNEL REQUIREMENTS

- 15 Personnel requirements have been estimated for the Third Plan, and, wherever possible, for the Fourth, in respect of various fields of development, notably, agrieulure and rural development, education, health and social welfare, administration and statistics. In sectors such as agriculture and health, to a large extent, the necessary training facilities were developed during the Second Plan, so that the demands at present anticipated might be met with only small increased in the existing facilities. However, the possibility of these demands increasing as the Plan proceeds has to be kept in view. Estimates relating to certain categories of personnel may be briefly mentioned.
- 16. The estimated additional requirements of agricultural and allied personnel in the Third and the Fourth Plans are set out in the following Table:

Estimated additional requirements of agricultural and allied personnel

-			
agneultural graduates	numbers in position in 1960-61	Third Plan additional require- ments 20,000	Fourth Plan additional sequire- ments 30,000
vetennary graduates	5,000	6,800	7,000
dairy technologists * degree	52	625	1,150
diploma	309	975	1,150
forestry			
forest officers	1,100	450	600
rangers	3,000	1,520	1,900
fisheries			
administrative and statistical personnal	457	1,475	
fishery engineers	150	240	
fishing boat personnel	120	250 (2,410
technical shore personnel	50	170 J	

The additional training facilities proposed in the Third Plan are given in the Table below:

	1960—61			196566		
	institutions	ınıake	outturn	matitutions		outturn
agricultural colleges	53	4,600	2,300	57	6,200	4,500
veterinary colleges	17	1,300	1,200	19	1 460	1,140
dairy technologic institutions	al S	110	100	7	170	154
fisheries institutes	2	50	50	3	80	75

Training programmes have also been formulated for personnel required in community development blocks and for the development of cooperation,

- 17. The programme for education in the Third Plan involves an increase of about 61 per cent in the number of trained teachers in primary schools, about 81 per cent in middle schools and about 40 per cent in secondary schools. At the end of the Third Plan the proportion of trained teachers in each of these categories will rise only to about 75 per cent. Facilities for formal training will, therefore, need to be supplemented by refresher courses and in-service training
- 18. For carrying out the Third Plan programmes under Health, shortages are anticipated in certain categories. The following Table sets out proposals for increase in training facilities during the Third Plan along with the position existing at the end of the Second Plan.

Additional training facilities for health and medical personnel

	196	196061			1965 66		
~	institutions	intake	outlurn	institutions		outturn	
doctors	57	5,500	3,200	75	8,000	4,830	
rures	250	4,000	2,800	350	6.200	4,500	
auxiliary nurse- midaixes mid- wises	420	5,200	4,000	550	9,100	7,000	
bealth visitors	30	650	375	.50	850	500	
sanitary inspector	3 28	2,250	2,250	38	2.550	2,550	
pharmacists	10	550	430	15	1,450	1,270	

19. The Third Plan provides for the expansion of the Indian Administrative and State Administrative Services.

- 20. Over the period of the Second Plan, the number of persons with Statistical training and background employed with the Central and State Governments has increased from 4,000 to 10,000. There will also be increased requirements in private industry and commerce Training facilities provided by the Indian Statistical Institute, the Central Statistical Organisation and the State Statistical Bureaux, the universities and other institutions are being expanded.
 - 21 Technical assistance schemes under the United Nations, the Colombo Plan and agreements with individual countries and foreign universities and Foundations have provided valuable opportunities for training over a large range of specialised and advanced fields of study To the extent possible, Inda has also endeavoured to share its training facilities with other countries. To derive the maximum benefit from the various technical assistance programmes, the gaps which are at present anticipated should be precisely identified and the selection of trainess and the scope of the training to be provided should be determined on the basis of careful study of requirements over the period of the Third Plan and the Fourth Plan. In augmenting training facilities and building up cadres of trained workers in the country, due account should also be taken of the demands from other countries which India may be called upon to meet in different fields in the coming years.

and, generally, helping in securing a common approach in various related fields. In collaboration with other organisations it is hoped to arrange for coordinated studies of natural resources on a continuing basis, to specify gaps in the existing information, specially from the aspect of long-term development, and to suggest suitable policies and measures for rivine effect to them.

4 The preparation of a long-term plan of economic development, stretching over the next litteen years and more, to which reference has been made earlier, will help interpret the results of scientific research and the greater knowledge now being gained of the country's resources. The task to be undertaken is one of considerable magnitude and will call for eontinuous cooperation between the Planning Commission, the various research organisations of the Central Government, Departments in the States, leading institutions engaged in scientific and economic research and the universities. The potential for the development of India's natural resources is vast; with systematic study and exploration of these resources and the increasing application of science and technology in their assessment and utilisation, the possibilities of economic growth may be enlarged for beyond the present anticipations.

OBJECTIVES OF SCIENTIFIC RESEARCH

- 5. Development of natural resources is intimately connected with progress in scientific and technological research. Since the second world war, the pace of scientific and technological research in advanced countries has greatly increased. One of the results has been to widen the gap between the advanced and the less advanced countries. The task before India is to cover this distance by putting in the utmost effort in the development of seientific and technological research and in the application of science in the furtherance of her development programmes.
- 6. Investment in scientific research makes a large and enduring contribution to the prosperity of the country. Successive Five Year Plans have, therefore, made steadily increasing allotiments for scientific research. These need to be supported more fully than in the past by contributions from industry. The cultivation of science and scientific research in all its aspects, pure, applied and educational, is among the major aims accepted by the Government of India in its Scientific Policy Resolution of March, 1958. During the First Plan attention was chiefly given to the building up of national laboratories and other research institutions. In the Second Plan the available facilities were developed further, research was made more broad-based and research facilities in universities and other research centres were extended.

- 7. As a result of developments over the first two Plans an extensive network of institutions engaged in scientific research has come into existence, and pure research, applied research and research in specialised fields are now being undertaken at a large number of centres. In the Third Plan the programme of scientific and technological research will be devoted specially to—
 - strengthening the existing research institutions and expanding facilities for research over a wide field,
 - (ii)_encouraging basic research in universities;
 - (iii) encouraging, in particular, research in engineering and technology;
 - (iv) training of research personnel and expanding the programme of research fellowships and scholarships;
 - (v) carrying out research in the development and manufacture of scientific and industrial instruments,
 - (vi) coordination of research work carried out in national laboratorics, universities, technical institutions, laboratories of scientific associations and research wings of Government Departments; and
 - (vii) utilising results of research after establishing their validity through pilot plant production, full scale field experiments, etc.
 - 8. The Third Plan programmes at the Centre for scientific and technological research entail a total outlay of Rs. 130 crores compared to Rs. 72 crores in the Second Plan. The distribution of these outlays is as follows:

Estimated expenditure (Rs. crores)

Council of Scientific and Industrial Research (C.S.I.R.) (including large-scale field experiments) and Ministry of Scientific Research and Cultural Affairs	Second Plan 20:00	Third Plan 35 00
Department of Atomic Energy	27.00	35 00
agricultural rese treft	13.80	26-40
medical research	2.20	3.50
research under other Central Ministries (other than Defence)	9.00	30-10
total;	72 00	130-00

The Third Plan outlays are in addition to expenditure amounting to Rs. 75 crores over the five-year period on the continuance of facilities established up to the end of the Second Plan.

- 9. The Plan reviews at some length the progress of scientific and technological research over the first two Plan periods and the programmes formulated for the Third Plan, under the following heads:
 - (i) Council of Scientific and Industrial Research,
 - (ii) Ministry of Scientific Research.
 - (ni) Department of Atomic Energy,
 - (iv) research in agriculture and allied fields.
 - (v) medical research.
 - (vi) other programmes of research:
 - (a) irrigation and power,
 - (b) transport and construction,
 - (c) minerals,
 - (d) communication,
 - (vii) sugar, jute and other industries,
 - (viii) research in universities and institutes of higher technology (including engineering research and statistics),
 - (1x) utilisation of scientific research,
 - (x) scientific instruments, and
 - (xi) standardisation, quality control and productivity.

UTILISATION OF SCIENTIFIC RESEARCH

10. The importance of ensuring speedy and extensive utilisation on a commercial scale of the results of scientific research has been stressed for several years. The National Research Development Corporation was set up with the object of exploiting the results of laboratory research for commercial production. However, a large proportion of the inventions made in the country still remain to be exploited. Intervals between the time when the results of laboratory research become available and their wider application are at present considerable, and there is need for more effective action. The factors which have hindered rapid utilisation of the results of research appear to be lack of pilot plant facilities and of design and fabrication facilities, inadequate haison between industry and research organisations, insufficient attention on the part of industry to the urgent need to secure indigenous production to replace imported articles, and inadaquate coordination between licensing policies and programmes for the deve-lopment of research. Facilities for design and fabrication of pilot plants are now available in much larger measure than before, and such defi-ciencies as exist will be made up to a considerable extent during the Third Plan. The other aspects mentioned above call for a new

approach. It is crucial that there should be a close association between research workers and individual industries, fuller knowledge and greater understanding on their part, both of the problems requiring solution and of the results obtained, and adoption by such industries of carefully considered schemes for the utilisation of the results of research, replacement of imported items by indigenous manufactures and achievement of higher standards based on research undertaken within the country. In particular, Development Councils and other organisations concerned with different industries should regard such schemes as an essential part of their programmes of development during the Third Plan. They should ensure that research workers receive the necessary assistance and facilities from industrial plants and from executives and engineers in different industries.

- 11. The same lags in the utilisation of the results of research which appear in industry are also found in other fields of development such as transport, construction and power. For lack of extended application, full value is not realised from expenditures incurred on research thereby slowing down the process of technical advance and modernisation. In the road development programme of the Central Government it has been decided to make a special provision to cover possible risks and to meet additional expenditures involved in giving extended trials to new techniques of road construction. This approach can also be applied in other fields of construction and in public utilities.
- 12. The technological progress of a country is marked by large numbers of inventions, some of major significance and based on prolonged research in the laboratories, others in the nature of improvisations and solutions discovered in the course of everyday work by skilled workers and technicians. For the process of industrialisation to strike roots of its own, it is essential that in all fields an effort should be made to stimulate the creative faculties of scientists, technicians and others. It is suggested that State undertakings as well as enterprises in the private sector and various agencies of the Central and the State Governments should formulate their own schemes for encouraging inventions on the part of workers and technicians and should give them the necessary support in working out and developing their ideas.

SCIENTIFIC INSTRUMENTS

13. Dependence on other countries for the supply of scientific instruments has been an important obstacle in the development of scientific research and in the extension and improvement of facilities for the teaching of science in schools and colleges. Following the report of the Scientific Instruments Committee, in October, 1959, the Council of Scientific and Industrial Research constituted a Central Scientific Instruments Organisation. To enable existing and potential manufacturers to arrange for production on a long-term basis, it is essential that Government departments and educational institutions should plan their requirements well abaed and make these known to manufacturers, and, to the extent possible, should place firm orders in advance. The purchase organisations of the Central and State Governments and various indenting authorities should collaborate in the improvement of prevailing procedures in relation to the development of the scientific instruments industry.

STANDARDISATION, QUALITY CONTROL AND PRODUCTIVITY

- 14. The Plan reviews the progress made in the implementation of the decision to introduce metric weights and measures. It is noted that in the course of the next three years the metric system will replace all other systems to a substantial extent and that after December, 1966, the metric system will be the only system recognised by law.
- 15. The Plan reviews the steps taken towards the establishment of Indian standards, the progress made in stimulating work on productivity and in introducing quality control. It is proposed that quality marking schemes should be extended during the Third Plan to new fields. In particular, pre-shipment inspection and other methods of ensuring the quality of export products should be adopted systematically in all fields and, if need be, efforts in this direction should be supported by legislation.

CHAPTER 19

HEALTH, HOUSING AND OTHER WELFARE SERVICES

Tuss Chapter outlines the main policies and programmes in the Third five Year Plan under Heatth and Farolly Planning, Housing and Urban and Rural Planning, Development of Backward Classes, Social Welfare, Prohibition and Rehabilitation of Displaced Persons. Programmes in these fields of development approved for the Thurf Plan entail a total cost of Rs. 736 crores as compared to about Rs. 474 crores in the Second Plan. In each field the policies and priorities recommended for the Third Plan are based on an evaluation of the working of different programmes during the first two Plans, and a fresh syssessment of the social situation.

I

HEALTH AND FAMILY PLANNING

2. The broad objective of the health programmes in the Third Plan is to expand health services and to bring about progressive improvement in the health of the people. Increased emphasis will be laid on preventive public health services. As in the Second Plan, specific programmes have been formulated in the Third Plan for improvement of environmental sanitation, specially rural and urban water supply, control of communicable diseases, organisation of institutional facilities for providing health services and for the training of medical and health personnel, and provision of services such as maternal and child welfare, health education and nutrition. The Third Plan also accords very high priority to family planning.

As against outlays of Rs. 140 crores and Rs. 225 crores in the First and Second Plans respectively, programmes in the Third Plan involve a total outlay of about Rs. 342 crores.

3. During the past ten years, notable advances have been made in several directions. Measures adopted for the control and eradication of malaria have resulted in marked decline in the incidence of the disease. Appreciable progress has also been made in controlling other communicable diseases like filaria, tuberculosis, leprosy and venereal diseases. Health services and training facilities have been developed on a considerable scale. About 664 schemes of urban water supply and drainage have been completed or are in progress. Rural water supply schemes have been carried out throughout the country.

Statistics concerning birth and death rates are subject to serious limitations. Nevertheless, as the Table below indicates, there has been steady improvement in the health of the population:

Birth rates, death rates and expectation of life-1941-61

period	birth rale	death rate	infant mortafuly rate			of life at birth	
			male	female	male	female	
194151	 39-9	27-4	190.0	175-0	32-45	31 66	
1951-56	 41.7	25-9	161 • 4	146-7	37.76	37 49	
1956-61	 40 7	21.6	142 3	127 9	41.68	42-06	

4 Despite improvements, at the end of the Second Plan in certain directions there were obvious deficiencies. In relation to needs the institutional facilities are quite inadequate, specially in the rural areas. Doctors are not evenly distributed between urban and rural areas, and in the latter shortages of personnel are common. Shortages of personnel have also hampered progress in dealing with communicable diseases Although there has been progress in rural water supply, over large rural tracts, facilities for safe drinking water are still lacking. In many urban areas, problems of drainage have been accentuated on account of the rapid growth of population The Third Plan aims at removing these various shortages and deficiencies. One of its major objectives is that, to as large an extent as possible, supply of good drinking water should become available in most villages in the country by the end of the Plan period. The programme for the eradication of malaria will be completed and efforts will be made to eradicate smallpox and to control filaria, cholera, tuberculosis, leprosy and other communicable diseases.

5. The principal physical targets proposed for the Third Plan, along with statistics of progress in the First and Second Plans, are given in summary form in the Table below:

Achievements and targets 1951-66

categories/unit			1950-51	1955-56	1960-61	1965-66
hospitals and dispense	aries					
institutions		 	8,600	19,000	12,600	14,600
beds		 	t1,300	125,000	185,600	240,100
primary health units		 	. —	725	2,800	5,000
medical education						-
medical colleges		 	30	42	57	75
annual admissions		 	2,500	3,500	5,800	8,000
dental education						
dental colleges		 	4	7	10	14
annual admissions		 	150	231	281	400

categories 'unit	1950-51	1955-56	1959-61	1965-66
training programmes				
doctors*	55,933	65,000	70,000	81,000
nurses*	15,000	18,500	27,999	45,000
auxiliary nurse-midwives				
and midwives*	8,903	12,783	19,933	43,500
health visitors*	521	をつう	1,599	3,500
hurse-dais dan*	1,830	6,400	11,500	40,000
Samitary inspectors*	3,500	4,000	6,999	19,200
pharmacists	N.A.	N.A.	42,000	43,000
control of communicable diseases				
malana : unuts		133	399	399*
population covered (milions)	_	107	433	497
filana trats	_	11	43	43
population covered	_	15 1	24 6	N.A.
tuberruloss :				
B.C.G. teams	15	119	167	167
T.B clines	119	160	220	420
T.B demonstration and training	•••			
Offices		3	10	15
beds	10,371	22,000	26,500	30,000
kyron : subsidiary centres		33	135	235
second disposer officer	_		83	189
maternity and child bealth centres	1,651	1,856	4,500	10,000
	.,051	.,000	,	

6. Water supply and environmental sanitation.—The Third Plan provides about Rs. 67 crores for rural water supply.—Rs. 35 crores under the Village Water Supply Programme and the balance under Health, Community Development and the Welfare of Backward Classes. The Village Water Supply Programme is intended primarily to deal with the problems of rural water supply at the village level and is to be undertaken in the blocks through Panchayat Samikis and Village Panchayats. To achieve the objective of making the supply of good drinking water available in most villages, it will be necessary not only to make an intensive effort but also to ensure that at every stage there are jointly prepared and effectively coordinated programmes between all the agencies concerned and local initiative and contribution are mobilised to the utmost. Surveys to ascertain the present position of cural water supply are being madertaken in several States.

7. Along with rural water supply much greater attention should now be given to the programme of rural sanitation, specially to the sanitary disposal of exercta in the villages. The broad lines of an action programme regarding the introduction and use of village lattines are now fairly established. It is important that in each development block an effort should be made to create greater awareness of rural

^{*} Number indicates the number in practice or in service.

NA - Not available

^{**} The units will be withdrawn gradually in the latter part of the Third Plan.

sanitation problems and to introduce the use of sanitary latrines in schools and camps, for groups of houses and, where possible, in individual houses. Health education is a most important aspect of the programme of rural sanitation. The advantages and convenience of clean, odourless and cheap latrines are obvious. They are no less essential for conserving the fertiliser value of human wastes and enriching the soil.

- 8. Urban water supply and sanutation.-The Plan provides Rs. 89 crores for urban water supply and drainage schemes. It is important that schemes of drainage and sewerage are considered simultaneously with those for water supply and are carried out under a coordinated programme. In cities whose population exceeds 100,000, it will be desirable to set apart for sewerage schemes, say, 20 to 30 per cent of the estimated cost of water supply projects. Experience of urban water supply schemes during the Second Plan has emphasised the need for careful phasing and for ensuring that different parts of a project are in the correct sequence with one another. It is necessary to avoid dispersing the available resources too thinly over a large number of schemes. Urban water supply schemes should be selected on the basis of suitable criteria. Municipal bodies should not only accept responsibility for maintenance but should also try to contribute towards the cost of construction to the extent possible. Coordination between the engineering and the health aspects of water supply schemes should receive greater attention.
- 9. Primary health units, hospitals and dispensaries.—The Third Plan envisages the provision of 2,000 more hospitals and dispensaries and 54,000 additional beds and, along with extension in the coverage of the community development programme, primary health units will be established in all development blocks. For dealing with the problem of securing medical personnel for rural areas, the following measures are proposed:
 - (i) As is the practice in some State, there should be a single cadre for personnel working in rural as well as urban areas. Service rules may stipulate that each incumbent in the cadre has to put in a certain period of service in rural areas before he can cross the first efficiency bar or gain the next grade. Periods of service in rural areas should be taken into consideration for accelerated promotion, advance increments or selection for post-graduate training.
 - (ii) Residential accommodation and other facilities should be provided for medical personnel serving in rural areas. Due

Programmes relating to the elimination of gottre, research in cancer, and diagnosis and treatment of venereal diseases are also being undertaken

- 11 Cholera—India has been an endenue area for cholera. There are five endemue foen in the deltate regions of the principal rivers in the States of West Bengal, Ornsa, Andhra Pradesh and Madras, of which West Bengal and Ornsa are the most serious. To prevent frequent occurrence of cholera epidemics, these endemic foel have to be eliminated. This object can only be achieved by providing adequate supply of safe water for the population, particularly in the endemue areas, and by the adoption of modern methods of sewage disposal. By far the largest endemic centre in India is Greater Caleutta. It is suggested that in the States affected by cholera a large part of the water supply and sanitation programme should be concentrated in the endemue pockets. Specific programmes for these areas should be drawn up speedily and, if necessary, an effort should be made to supplement resources available under the Plan There is no reason why it should not be possible to reduce the incidence of cholera significantly during the Third Plan and to eliminate it wholly by the end of the Fourth Plan
- 12 Other aspects of the health programme —Some aspects of the health programme which will call for considerable attention during the Third Plan are briefly mentioned in the following paragraphs.
- 13 Health education—In its widest serve health education is the very foundation of a successful public health programme. A great deal of ill health is the result of ignorance of simple rules of hygiene or of indifference to their practical application, and no single measure is likely to give a greater return in proportion to the outlay than health education in the suggested that health education should be undertaken as a national programme and far greater stress should be placed upon it in the work of social education in community development blocks.
- 14 School health—Care of the health of school children is not only utial in itself, but is a most important aspect of the health of the community as a whole Health programmes in the States should ensure certain minimum services for the care of health in the schools. The programme of school mid-day meals should be extended progressively as local communities come forward to contribute towards it. In due course the movement for mid-day meals should cover the bulk of the school population, specially in the lower age groups.
- 15. Vital statistics.—Deficiencies in vital statistics are among the most serious weaknesses of the existing statistical system. Proposals

for improving vital statistics have been recently worked out at an inter-State conference. These include a recommendation for enactment of Central legislation for vital statistics, a scheme of sample registration of areas with a wew to obtaining reliable estimates of birth and death rates for different States and regions, and suggestions for administrative and other arrangements for urban and rural areas, flow of returns and compilation of statistics. The programme for the improvement of vital statistics should be implemented as speedily as possible with such further support from the Centre as might be found necessary.

- 16. Mental health —In view of the growing importance of mental health services in programmes for the development of health services there is need for mental health orientation of medical specialists, public health personnel and social workers, specially those working in materially and child health centres.
- 17. Drugs—It is proposed that State Governments should augment their personnel for the day to day administration of the Drugs Act and should provide for the establishment of their own laboratories for analysis of samples.
- 18 Food adulteration.—Adulteration in articles of common consumption is tending to increase. Adulteration occurs at the point of production, in the stage of processing and in the course of distribution, both wholesale and retail It is essential that for each commodity the problem should be followed up systematically for each of the earlier stages and all the parties concerned should be brought within the scope of legal and administrative action. In addition to vigilance by local bodies, voluntary organisations and consumer associations, cooperative consumer stores should be built up, specially in the towns, as a means of assuring the supply of pure foodstuffs.
- 19. Indigenous systems of medicine.—The present approach to education in Ayurveda has not produced satisfactory results. The course of "integrated" medicine has not served the avoised object of producing practitioners of Ayurveda There is lack of uniformity in different States in the matter of qualifications presented for admission, curricula, training, etc. The Planning Commission's Panel on Ayurveda has made a number of recommendations for promoting the Ayurvedic system of medicine. Research in Ayurveda needs to be intensified.
- 20. Nutrition.—Duct surveys undertaken at the instance of the Indian Council of Medical Research over two periods, 1935—48 and 1955—58, show that while there has been on appreciable change in the consumption of cereals and pulses, there may well have been a

small reduction in the consumption per capita of some of non-cereal foods Food deficiencies bear most harshly on growing children among the poorer sections of the population. The programme for improving nutrition falls broadly under two heads, namely, education of the public and of various groups of workers in nutrition, and measures to meet the nutritional requirements of vulnerable groups within the community. Among the vulnerable groups, those requiring the greatest attention are expectant and nursing mothers, infants, pre-school children and school children, specially in the lower age groups. School children are best eatered for through the mid-day meal programme. For under-nourished ehildren the provision of protective foods like milk and additions to the diet through multipurpose food, vitamins, etc., are essential. Greater attention should also be given to the provision of cheap and balanced meals in eanteens in industrial undertakings, hostels and in restaurants and eating places for the general public At the Centre there is already a National Nutrition Advisory Committee. The establishment of special sections for nutrition in the Public Health Departments in the States merits early consideration.

FAMILY PLANNING

- 21. The greatest stress has to be laid in the Third and subsequent Five Year Plans on the programme for family planning. This will involve mensure education, provision of facilities and advice on the largest scale possible and widespread popular effort in every rural and urban community. In the eireumstances of the country, family planning has to be undertaken, not merely as a major development programme, but as a nationwide movement which embodies a basic attitude towards a better life for the individual, the family and the community.
- 22. During the First Plan, 126 family planning climes were set up in urban areas and 21 in rural areas. In the Second Plan, the number of climes increased to 549 in urban areas and to 1,100 in rural areas. In addition to these clinics, family planning services are provided at 1,864 rural and 330 urban medical and health entires. A number of sterilisation centres have also been established. The programme is guided by the Central and Stare Family Planning Boards. A considerable amount of research work is in progress at the Contraceptives Testing Unit at Bombay and elsewhere. Four demographic research centres have been set up. A number of valuable field investigations have been developed.
- 23. The programme for family planning in the Third Plan provides for (a) education and motivation for family planning,

(b) provision of services, (c) training, (d) supplies, (e) communication and motivation research, (f) demographic research, and (g) medical and biological research. The programme, as approved, involves a total outlay of Rs. 50 crores.

Intensification of the educational programme is crucial to the success of the entire movement. Family planning education, being part of education for a better life, has to be interwoven with other constructive activities. According to the tentative programmes drawn up for the Third Plan, the number of family planning clinics is likely to increase from about 1,800 at the end of the Second Plan to about 8,200. Of the latter, about 6,100 chimes may be in rural areas and 2,100 in urban areas,

- 24. An expanded programme of research is to be undertaken in the Third Plan. Amongst others, the following aspects are being investigated:
 - (i) development of studies of human genetics,
 - (ii) studies in the physiology of reproduction.
 - (iii) development of more effective local contraceptives.
 - (iv) development of a suitable oral contraceptive, and
 - (v) follow-up of sterilisation cases, both male and female, to investigate possible after-effects in such cases.

An expert committee on oral contraceptives has been appointed to review periodically the developments in this field and to make recommendations. A committee to guide communication, motivation and action-research in family planning has also been recently set up. Studies of the sociological problems involved in family planning need to be developed on more comprehensive lines than has been hitherto attempted.

- 25. Within the programme of family planning, sterilisation undertaken on the basis of voluntary choice has a valuable contribution to make. It is visualised that during the Third Plan facilities for sterilisation will be extended to district hospitals and sub-divisional hospitals.
- 26. The main task in the field of family planning in the Third Plan is to find effective solutions to certain basic problems and to mobilise all the available agencies for educational and extension work in support of family planning. Administrative arrangements at the Centre and in the States will need to be greatly strengthened. To equip thousands of primary health centres and in due course their subcentres as well, with personnel and supplies, and to be able to reach out to the villages, not merely with advice but more positively with the means to practise family planning, are tasks whose magnitude and

complexity should not be under-estimated. To utilise such diverse agencies as private medical practitioners, indigenous doctors and village dais for family planning work along with the family planning clinics and the primary health centres will call for much careful organisation at the local level. The development of the production of contraceptives on the seale needed is another major undertaking. It is essential that the help of voluntary organisations, labour organisations and other associations in various branches of national life should be sought on as large a scale as possible and integrated into the practical programmers of work adopted in each area.

Finally, it should be added that besides the provision of facilities which are undoubtedly needed in any large-scale effort to limit families, there should be the greatest emphasis on moral and psychological elements, on restraint and on such social policies as education of women, opening up of new employment opportunities for them and raising of the age of matriage. In addition to advice on birth eontrol, the family planning programme should include sex and family life education and advice on such other measures as may be necessary to promote the welfare of the family.

11

HOUSING AND RURAL AND URBAN DEVELOPMENT

The growth of population, and especially the urban population, has three broad implications for housing programmes in the Third and subsequent Five Year Plans Firstly, housing policies need to be set in the larger context of economic development and industrialisation, and the problems likely to emerge over the next decade or two. Proposals relating to location and dispersal of industries will be of increasing importance in the solution of the housing problem. Secondly, it is necessary to coordinate more closely the efforts of all the agencies concerned, whether public, cooperative or private. The need to undertake the preparation of master plans for urban areas becomes all the greater, for without them there is no way of bringing together and maximising the contribution of different agencies towards well-defined common objectives pursued systematically over a long period. In the third place, conditions have to be created in which the entire programme of housing construction, both public and private, is oriented to serve specially the requirements of low-income croups within the community.

During the First Plan, the housing programme was directed mainly towards housing for industrial workers and low-income groups. In the Second Plan, the programme was expanded to include schemes of slum clearance and improvement, plantation labour housing, village housing and land acquisition and development. These programmes will be continued and expanded in the Third Plan. There will, however, be much greater emphasis on land acquisition and development, as this is basic to the success of all housing programmes. New programmes for housing economically weaker sections of the community, dock labour and pavement dwellers will also be taken up Concerned efforts are proposed to be made to prepare master plans and regional development plans of metropolitan and industrial cities and resource regions.

3. Outlays in the Third Plan.—The Third Five Year Plan provides for programmes costing Rs. 142 croces for housing and urban development as compared to the anticipated expenditure in the Second Plan of Rs. 80 croces. In addition, it is hoped that the Life Insurance Corporation may be able to contribute about Rs. 60 croces towards the development of housing

Besides these provisions, housing programmes will also be undertaken for workers employed in coal and mica mines, scheduled castes and backward classes and by several Central Ministries. Broadly, it is reckoned that in the course of the Third Plan about 900,000 houses may be constructed under different housing schemes and the construction programmes of the Ministries as compared to a total of about 500,000 in the Second Plan Net private investment on bousing and other construction during the Third Plan is placed at about Rs. 1.125 crores.

4. Housing Boards.—Finance provided duretly by Government can meet only a fraction of the demand for housing. Institutional arrangements are, therefore, required for enabling large numbers of persons, many of them with small moomes, to build for themselves. In this connection the possibility of setting up a Central Housing Board is at present under study. Such an organisation could help to channel additional funds under housing, encourage the flow of credit on easy terms, improve lending practices and provide the machinery needed for the creation of a sound mortgage market in housing. It could, for instance, raise finance directly to some extent and provide loan assistance to State Governments or State Housing Boards for purchase and development of slum areas. Funds obtained from the Life Insurance Corporation and from the Central Government could be channelled through it. The existence of a Central Housing Board and of Housing Boards in the States could, in due course, secure for the development of housing resources which might not be otherwise readily available. Together, these institutions could assist in evolving bousing policies

which would facilitate construction of houses by persons of limited means for their own use, and also enabling banks and other financial institutions to undertake various services.

5. Land acquisition and development.—Availability of building sites in sufficient numbers and at reasonable rates is essential for the successful implementation of the housing programme. In the Third Plan, a programme entailing an outlay of Rs. 26 crores (inclusive of the contributions to be made by the Life Insurance Corporation) is preposed for the scheme. The resources made available under this programme could serve as nuclei for revolving funds in the States and be utilised for bulk acquisition and development of land.

6 Housing of industrial workers,-At the end of the Second Plan,

- under the subsidised industrial housing scheme, which has been in force since 1952, about 100,000 houses had been completed and 40,000 more were in different stages of construction. Much progress cannot be achieved without employers generally accepting the housing of a substantial portion of workers as an essential obligation. Without improvements in housing conditions for industrial workers, efforts to increase industrial efficiency and productivity will be affected. Arrangements have, therefore, to be worked out both for new industries and for established industries which should be feasible from the financial and other aspects and would also result in an effective contribution towards the solution of the housing problem. It is suggested that new establishments with a prescribed limit of paid up capital (say, Rs. 20 lakhs or more) might be placed under the obligation of constructing one-half of the housing required by their labour over a period of perhaps 10 years. In the case of older establishments, while taking account of any contribution towards housing already made by an account of any contribution cowards housing arready made by an employer, the aim might be that about 50 per cent of the housing required is made available directly by industries over a period and the rest as part of the general scheme of housing development. To the extent employers are unable to construct directly, the Government or the Housing Boards may take up construction. In such cases, employers will contribute towards the cost of construction. These and other suggestions are proposed to be considered jointly with representatives of employers and workers with a view to evolving a satisfactory scheme.
- 7. Housing for low income groups.—Since the scheme began in 1954, loans for about \$5,000 houses have been sanctioned and by the end of the Second Plan about \$3,000 houses were completed. In the Third Plan special steps are proposed to be taken to enable economically weak sections of the community, such as those with an annual income of Rs. 1,800 and less, to obtain due benefits from the scheme.

It is proposed to provide local bodies with loans at a concessional rate of interest repayable over a long period for undertaking rental housing for such sections. Housing cooperatives comprising economically weaker sections could also be given similar assistance. It is envisaged that as more institutional finance for the housing of low income groups becomes available, an increasing proportion of funds provided by Government could be utilised for housing schemes for the economically weaker sections.

S. Slum clearance and improvement.—It is proposed that slum areas should be surveyed and classified in two categories, namely, areas which have to be cleared and redeveloped completely, and those which can be made habitable through the improvement of environmental conditions. If owners of slum properties falling within the second category fall to carry out the improvements, these could be undertaken through local bodies and the cost recovered from the owners and, where necessary, the properties could be acquired or requisitioned. Where improvements are carried out by local bodies in slum areas on public lands or requisitioned lands, it may be necessary to give them grants for providing essential services. In selecting slum areas for clearance and improvement special attention should be given to areas predominantly inhabited by sweepers and scavengers. The cooperation of voluntary organisations and social workers should be fully enlisted in carrying out the programmes of slum clearance and improvement.

The existing slum clearance gives priority to the slum problems of six major cities, namely, Calcutta, Bombay, Madras, Delhi, Kanpur and Ahmedabad. In the Third Plan, the maximum effort under the scheme should continue to be concentrated on these six cities. In principle, bowever, the slum clearance and improvement work could be taken up by State Governments wherever the slum problem exists in acute form. In view of limitations of resources, however, ordinarily towns and cities with a population of 100,000 or more should receive priority.

9. While steps are being taken to clear and improve the existing slums, it is equally important that new slums should not be allowed to grow up. This is by no means an easy object to achieve. Besides preparing and strictly implementing master plans for all growing towns and cities, it will be essential to enforce municipal bye-laws and building regulations and, at the same time, to expand housing facilities for low income groups and the economically weaker sections. As transitional measures, night shelters and dormitory accommodation for pavement dwellers and non-family workers should have considerable

urgency Similarly, the housing of sweepers and scavengers mustreceive special consideration.

URBAN PLANNING AND LAND POLICY

- 10 The number of cities with a population of 100,000 or more increased from 75 in 1951 to 115 in 1961 and their population more forms about 43 per cent of the total urban population. As an important aspect of the process of economic and social development, urbanisation is closely connected with many other problems such as migration from sileges to towns, levels of hiving in rural and urban areas, relative costs of providing economic and social services in towns of varying size, provision of housing for different sections of the population, provision of facilities like water supply, sanitation, transport and power, pattern of economic development, location and dispersal of industries, civic admunistration, fiscal policies and the planning of land use. Of these aspects, in the long run, the most decisive are the pattern of economic development and the general approach to industrial location. They influence specially the manner in which urban areas which are developing rapidly are tending to grow up. The main ingredients of developmental policy are the following:
 - (1) as far as possible, new industrics should be established away from large and congested cities:
 - (2) in the planning of large industries, the concept of region should be adopted. In each case, the area of planning should extend beyond the immediate environs to a larger area for whose development the new industry should serve as a major focal point;
 - (3) in community development projects or other areas within a district, the rural and urban components of development should be knit into a composite plan based in each case on schemes for strengthening economic inter-dependence between towns and the surrounding rural areas; and
 - (4) within each rural area the effort should be to secure a diversified occupational pattern in place of the present extreme dependence on agriculture.
- 11. Much of the deterioration which occurs in living conditions in rapidly growing urban areas is due to the high costs of urban development and the inability to meet them. The situation is further accentuated by the existence of unemployment, overcrowding and the growth of slums and the fact that a significant proportion of the population in many cities is, without shelter. There are certain minimum directions.

in which action should be taken during the Third Plan so that, for the future at any rate, a correct course is set. These are:

- (i) control of urban land values through public acquisition of land and appropriate fiscal policies,
- (ii) physical planning of the use of land and the preparation of master plans;
- (iii) defining tolerable munimum standards for housing and other services to be provided for towns according to their requirements and also prescribing maximum standards to the extent necessary; and
- (iv) strengthening of municipal administrations for undertaking new development responsibilities

12. High land prices are the most important element in raising housing and other costs and in restricting the scale on which improvements can be undertaken in the interests of low income groups. Apart from normal increases, a major factor in raising land prices is speculation. Conditions for rising land values exist in almost every urban area, but they are most marked where new industries or new public or other activities are being established. Without exception, the need for adequate measures of taxation of urban land and property exists in all towns. In several urban areas, it is necessary to take more drastie measures, legislative and others, for freezing land values and for undertaking large-scale public acquisition of land. Specific measures for checking rise in land values can become effective if there is strict regulation of the uses of land, especially in and around metropolitan efficial raise and growing effices and new industrial towns. It is for such towns that the preparation of master plans is of special importance.

Among the principal steps for controlling land prices are the freezing of land values with a view to early acquisition of land by public authorities, acquisition and development of land in accordance with the interim general plans, allotment of land on a lease-hold basis, betterment levies and taxation of agricultural lands put to non-agricultural uses, capital tax on transfer of free-hold lands, taxation of vacant plots in developed areas with power to acquire if they are not built upon within specified periods, ceiling on the size of individual plots and limiting the number of plots which a single party may be permitted to acquire and, finally, determination of appropriate norms of rent and regulation and control over rents. These measures lie at the base of proposals for planned urbanisation.

13. To secure orderly development of towns and cities, town planning is indispensable. The first step in this direction will be the

preparation of interim general plans establishing the broad pattern of land use to which developments should conform. This should be followed by the preparation of detailed master plans for urban and regional development. Master plans should be drawn up in the first instance for metropolitan cities. State capitals, port towns, new industrial centres and large and growing cities where, in the ordinary course, conditions are likely to deteriorate further. A tentative list* of such towns and cities has been drawn up for the Third Plan period. The primary responsibility for the preparation of master plans lies with State Governments and the local administrations concerned. Limited provision has been made at the Centre for assisting States in the preparation of master plans. An essential preliminary is the enactment of suitable legislation on town and country planning. It is necessary that State Governments establish town planning organisations with adequate trained personnel and take up specific towns and areas for practical action.

- 14. In redeveloping existing cities and building up new towns, it is of the utmost importance that the regional approach should be followed This is necessary both for securing a proper balance between social and economic development and for achieving greater cultural unity and social integration in the life of developing urban communities. Greater attention to the environment and appreciation of day to day needs of the people can go a long way to give to all clitzens a sense of community in urban life.
- 15. At the local level, municipal administrations alone can undertake satisfactorily the task of providing the services needed for development in urban areas, expansion of housing and improvement of living conditions. Most municipal administrations are not strong enough to earry out these functions. They should be sufficiently

(a) metropolitan cules, State capitals and port towns:
State capitals and port towns:
Ahmedabad, Bangalore, Bhopal, Cochin, Dehin (Mitropolitan rranon), Greater Bembay, Greater Calcutta, Hydrenbad-Secunderabad, Sarpur, Candrow, Madras, Turus, Doord, Shiftong, Strangar, Varansa, Visakhayanam and Tranadrum.

(b) industrial cenjres: Allahabad, Asamol, Baraun, Baraun, Baraun, Baraun, Bahara San, Bhilas, Bokaro, Chilaranjan, Combatore, Dehr-on-Sone, D'an-pur, Gaulant, Gorakh-pur-Deoria, Gunjur, Jamshedgur, Kolarang, Gunjur, Jamshedgur, Kongarang, Pamel, Rarch, Rashiketh-Hardwan, Rouricela, Sanda Nouricela, Nouricela, Nouricela, Nouric

and Warangal,

(c) resource regions:
Bhakra-Nangal area,
Damodar Valley,
Dandakaranya, Rajasthan Canal area and
Rihand area.

strengthened through increase in resources and personnel and enlargement of jurisdiction and functions. Where the present limits of the selected urban areas are insufficient to cope with the problem, they should be extended. In the case of growing towns, it will be desirable from the heginning to provide for larger rather than smaller municipal areas, so that these towns and the rural areas surrounding them can be developed together in a coordinated manner without baving to face difficulties later on account of separate jurisdictions. These developments will he facilitated when, as has been envisaged, a large proportion of towns have separate development plans of their own and these are interrated with the plans of States.

RUBAL HOUSING AND PLANNING

- 16. Rural housing is intrinsically a part of community development and of village planning. The specific programme for rural housing as such is intended to supplement the resources of the community development movement at the level of the block and the village by way of assistance in the form of technical advice, demonstration, provision of improved designs and layouts, better use of local materials and, to a limited extent, provision of finance. It is essential object is to help create healthy environmental conditions for all sections of the village population and for halanced development of rural life as a whole
- 17. The village housing scheme, which was taken up four years ago, provides for selection of willages in groups of four to six and the preparation of layout plans for these villages after earlying out physical and socio-economic surveys. At the end of the Second Plan, surveys of about 2,000 villages had been completed and layout plans for 1,600 villages drawn up. Against 15,400 houses for which loans were sanctioned, about 3,000 houses had heen completed. The following suggestions arise from the experience of the working of the scheme during the Second Plan:
 - (1) It is important that a group of villages should he taken up together instead of isolated villages, so that it may he possible to set up a brick kiln or arrange for the supply of components on a cooperative basis to meet a continuing demand. The full impact of a housing programme hy way of increase in employment and improvement in environmental conditions cannot be otherwise realised.
 - (2) The first claim on the available resources should be on account of the extension of the village site, improvement of roads and drainage and allotment of land for essential purposes of interest to the community as a whole.

- (3) The key to improved housing is the availability of land for the extension of the village site. To the greatest extent possible, the community itself, through mutual arrangement, should be expected to provide the additional land required. However, for assisting the village community to acquire land for providing house sites for agricultural workers and for Harijans, there is scope for a limited measure of assistance.
- (4) The first place in the programme for improving village housing should be given to housing for scheduled castes, agricultural workers and those sections of the community whose housing conditions are specially deplorable. For scheduled tribes and scheduled castes, in particular, provisions available under the programme for the welfare of backward classes should be utilised in a coordinated manner alone with other provisions.
- (5) In the rural housing programme there should be much more stress than batherto on community effort in improving roads and dramage, contribution by way of land for the extension of the village site and mutual sid in constructing improved housing The rural housing programme should be linked up more closely with different schemes of community development such as provision of water supply, roads, drainage, public health, education, etc. Rural housing should also be effectively coordinated with other connected economic programmes.
- (6) The rural housing scheme lays down considerations for deciding which villages may be selected, e.g., villages affected by floods or having a substantial population of backward classes and agricultural labourers or in which some displacement of the population may have occurred. Villages with concentrations of artisans should also receive preference. In the selection of villages evidence of cooperative soff-help and willingness on the part of the village community to contribute land for the village site and to give promity to the housing for Harijans and other backward classes should be important considerations.

18. House sites for agricultural workers.—Out of the provision for rural housing, it is proposed to earmark Rs. 5 crores by way of grant for assisting States in securing house sites for landless agricultural workers in villages in which they form a fairly large part of the population and a comprehensive housing programme is taken in band.

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III DEVELOPMENT OF BACKWARD CLASSES

Programmes for bringing scheduled tribes, scheduled castes and other backward classes to the level of the rest of the community are amongst the most significant undertaken during the First and Second Plans. Article 46 of the Constitution laid down the Directive Principle that the State shall promote with special care the educational and economic interests of the weaker sections of the people and, in particular, of scheduled eastes and scheduled tribes, and shall protect them from social injustice and all forms of exploitation. During the next two or three Plans, measures for advancing the economic and social interests of scheduled tribes, scheduled eastes and other backward classes should be so intensified that they do in fact reach a level of well-being comparable with that of other sections of the population.

- 2. Development programmes for the welfare of backward classes, for which provision is made in the Five Year Plans, are intended to supplement benefits accruing from programmes of development in different fields. In the ordinary course, the weaker sections of the population are not able to secure their fair share of the benefits of provisions made under different heads. To enable them to do so, it is desirable that the normal patterns of assistance should provide, wherever necessary, for an element of special consideration for the weaker sections, and in particular for the backward classes. While general development programmes should be so designed as to cater adequately for the backward classes, the special provisions in the Plan should be used as far as possible for securing additional and more intensified development.
- 3. For the welfare of backward classes, the Third Plan at present provides for programmes estimated to cost about Rs. 114 errors compared to Rs. 79 errors in the Second Plan and Rs. 30 errors in the First. Of this amount, about Rs 42 crogss are intended for schemes of educational development, Rs. 47 errors for economic uplift schemes and Rs. 25 crores for health, housing and other schemes. The problems of scheduled castes and other backward classes are essentially those of the economically weaker sections of the community, who suffer also in larger or smaller measure from social disabilities. Denotified also in larger or smaller measure from social disabilities. Denotified ribbse constitute a special group whose assimilation into the larger community presents peculiar difficulties, but is nonetheless a matter of great urgency. In the context of a rapidly developing economy, scheduled tribes can no longer remain in the isolation which characterised them in the past and in many areas, with the onset of industrialisation and of large irrigation and power projects, they confront complex problems of adjustment and rehabilitation. Although there are certain

common considerations and approaches, scheduled tribes living in different parts of the country vary a great deal among themselves, and the special conditions and problems of different tribal groups have always to be kept in view.

SCHEDULED TRIBES

- 4. While the tribal areas can scarcely remain isolated, it would be an error to over-administer them in the name of development. A middle way between these extreme positions has to be found. In facilitating the development of agriculture, communications, health and education services, the tribal people should be enabled to develop along the lines of their own genius, with genuine respect and support for their own traditional arts and culture and without pressure or imposition from outside. In tribal areas every effort should be made to train and build up a team of their own people to do the work of administration and development, the constant aim being to develop local personnel both as official functionaries and as social workers. In selecting programmes the stress should be on those calculated to mitigate poverty, impart new skills, promote health and better living and improve communications without, however, upsetting the stability of social and cultural values and the scheme of obligations within the tribal community.
- 5. Execution of development programmes among tribal people meets with several practical difficulties and lumtations, specially inndequacy of local personnel and of effective means of communication between personnel engaged in development work and the traditional leadership and institutions. In their interim report the Scheduled Areas and Scheduled Tribes Commission have drawn attention, amongst others, to the following aspects of the problem:
 - there is need for strengthening and in some eases for reorganising the administrative set-up for the scheduled areas;
 - (2) there is need for a larger effort through special institutions and otherwise for giving orientation to personnel
 - at various levels working in tribal areas;

 (3) there are a large number of problems emerging in tribal
 - areas which eath for scientific study and evaluation; and
 (4) non-official voluntary organisations should be adequately
 assisted on the basis of programmes which are carefully
 - assisted on the basis of programmes which are carefully formulated and coordinated with other activities.
 - In drawing up programmes, it is proposed that priority shall be given to the economic rehabilitation of tribal people. In the programme

for education, there should be assistance at the middle and secondary stages for freeships and stipends and hostels. Scholarships and freeships should also be provided for technical training. The main highways should be undertaken as part of the general development programme and resources provided for scheduled tribes should be used for culverts, causeways and bridges for connecting maccessible areas, approach roads, jeepable forest roads and reparts to existing communications with remote areas. The Plan provides for a programme for 300 tribal development blocks, which aim at intensive and coordinated development in tribal areas on the general pattern of community development, but modified to suit tribal conditions.

- 7. To a large extent improvement in the economic conditions of scheduled tribes depends upon the success in raising levels of agriculture. Wherever settled cultivation already exists, there should be the utmost stress on the adoption of better implements and technical guidance. Where shifting cultivation prevails, the primary aim should be to ensure that it is carried out on a scientific basis so as to diminish its disadvantages and assist in maintaining the fertility of the soil. Among the tribal people there are many factors in favour of development along cooperative lines. But the problem of past indebtedness has to be dealt with in a more basic way than in the past. In the plans of States, there are several schemes for the promotion of cottage industries in tribal areas. It is essential to study closely the arts or crafts which already exist in each area and to consider how these could be developed and also the new crafts which could be introduced on an economically satisfactory basis. The development programmes for scheduled tribes are proposed to be reviewed at a later stage in the light of the proposals and recommendations which the Scheduled Areas and Scheduled Tribes Commission may make in its final report. The precise additions needed in the provisions for scheduled tribes, the extent to which the further outlays proposed under different heads can he met from general allotments for them in the Plan and the respective contributions of the Centre and of induidual States will be considered in due course.
- 8. In recent years, several large projects for the development of irrigation, power and industry have been located in areas inhabited by tribal population. As an immediate effect of these projects, there has been a considerable measure of dislocation and uprooting. Efforts are made to provide compensation in land or eash or both. It has been observed that compensation taken in, eash is soon squandered, and frequently, where compensation has taken the form of land, for a variety of reasons, satisfactory resettlement has not been achieved. This problem is thely to grow in magnitude and should be handled

with extreme care. It is suggested that in dealing with the problems of eviction and resettlement, where these cannot be avoided, the agency of Tribal Welfare Departments and of voluntary organisations should be utilised to the extent possible.

9 Although much has been accomplished during the first two Plans, Departments in the States set up for carrying out development programmes among the tribal people are not on the whole sufficiently equipped with personnel. It might be worth considering whether the Central and State Governments should not now cooperate in forming a special cadre comprising technical and other personnel for work in scheduled areas and in other areas which have concentrations of tribal populations.

SCHEDULED CASTES

- 10 As distinguished from scheduled tribes, scheduled castes are widely dispersed and, while they form part of the general community, the social disabilities from which they suffer and their economic weaknesses place them in a special category. About Rs. 30 erores have been provided for scheduled castes in the plans of States. About one-half of this amount is for educational schemes and the balance is divided about equally between (a) schemes for economic uplift and (b) health. housing and other schemes
- 11. The programmes for scheduled eastes included in the Third Plan are intended to provide for certain special schemes which supplement development programmes undertaken for the community as a whole. While the bulk of the allocations are made in the plans of the States, the Ministry of Home Affairs have provided for the following Centrally sponsored schemes:
 - (1) improvement of the working conditions of persons engaged in unclean occupations, including eradication of the practice of carrying night-soil as head loads;
 - (2) subsidies for housing for sweepers and scavengers:
 - provision of house sites for members of scheduled castes—
 - (a) who are engaged in unclean occupations, and (b) who are landless labourers.
 - (4) award of post-matric scholarships; and
 - (5) aid to voluntary organisations.

Under the general housing programmes, funds are earmarked for acquisition and development of lands or granting house-sites to agricultural workers, amonest whom members of scheduled castes form a considerable proportion.

- 12. Voluntary organisations are given assistance for educating the pulse regarding the removal of untouchability. It is important that voluntary organisations should go beyond work relating to publicity and propaganda and should actually establish or help to set up institutions such as schools, hospitalls, housing cooperatives, industrial centres, etc., and should assist in running them.
- 13. There is need for fuller and more frequent evaluation of the impact of development programmes on the conditions of scheduled castes and other backward classes so that, in the light of experience, new methods may be adopted and the existing arrangements strengthened.

DENOTIFIED TRIRES

- 14. Denotified tribes constitute a special group whose assimilation into the larger community presents peculiar difficulties, but is nonetheless a matter of great urgency. The repeal in 1952 of the Crininal Tibes Act, 1924 embodies a fundamental change in the approach towards ex-criminal tribes from surveillance and punishment to correction, rehabilitation and assimilation into the wider community. The rehabilitation of these tribes presents many problems. In view of the small results achieved thus far, it is considered that their needs should be studied in each area and programmes could be drawn up on the basis of the following suggestions of the Study Team set up by the Committee on Plan Profects:
 - the need for a combined correctional and welfare approach for the rehabilitation of denotified communities, which should be supported by a programme of social education.
 - (2) formulation of special economic programmes which keep in view the character of the population, in particular, their adventurous spirit and traditional skills.
 - (3) organisation of industrial and other cooperatives,
 - (4) provision of opportunities for employment in the public services supported by way of additional training and orientation facilities, and
 - (5) where the denotified tribes constitute a sizable population, eadres of trained workers, who are familiar with their social and cultural background and can work closely with them, should be built up.

The objective of assimilation should guide the programme of rehabilitation and development from the very start and progressive and forward-looking elements among the denotified tribes themselves should be assisted and encouraged to play an increasing part in this effort.

ΙV

SOCIAL WELFARE

Development over the past decade of social welfare activities as an integral part of the First and Second Plans has a significance which extends beyond the range of services established or the extent of resources utilised. These activities express the concern of the community for the welfare of its many vulnerable sections and emphasis an essential value in national development. In drawing large numbers of voluntary workers, specially women, into the field of creative social service, the community is itself enroched and strengthened.

- 2 The social welfare programmes, which have been implemented by voluntary organisations with the assistance of the Central and State Governments, include, amongst others, welfare extension projects undertaken by the Central and State Social Welfare Boards, programmes relating to social defence, social and moral hygiene and aftercare services and other welfare programmes. In developing them, the object is to replace individual and haphazard relief and charity by organised and sustained activity for education, welfare and rehabilitation undertaken with the general support of the community.
- 3. A variety of welfare services have been developed in recent years through financial support provided by the Central and State Governments. After each phase of development, adequate arrangements have to be made for the continuance of the new services on a permanent basis. The resources provided under the Third Plan are being utilised both for expanding the custing welfare services and for assisting voluntary organisations to continue those already established. To this extent, development of new services tends to be hulted. In the interest of future development it will be desirable to distinguish between resources required to enable voluntary organisations to maintain the services already established and the resources provided for new development.
- 4. A stage has reached in the development of welfare services when, for the better utilisation of the available resources and improvement in the quality of the services offered, it is essential that the various Government agencies concerned, both at the Centre and in the States, should achieve a larger measure of coordination among themselves. Voluntary organisations should develop along specialised lines, each selecting a limited area of activity in which its workers gain experience and intimate knowledge of problems.
- 5. In its very nature, progress in social welfare is difficult to measure. Its true tests are the numbers of voluntary workers who

participate in social welfare activities and the response from each local community towards the solution of its own social problems. Whatever the shortcomings-and there are bound to be many in so difficult a field-the record of work over the past decade has been in many ways outstanding. About 6,000 voluntary welfare organisa- . tions in different parts of the country have been assisted by the Central and State Social Welfare Boards. The Central and State Boards have also been responsible for the establishment of urban community centres, production units to assist women to supplement their incomes and night shelters in urban areas. A large number of adult women were enabled through condensed courses to attain the minimum educational qualifications necessary for vocational training and employment. Establishment of welfare extension projects was another important development in this field. Each extension project provides maternity and child health services, craft classes, social education for women and care of children through Balwads.

- 6. In the Third Plan, provision has been made for programmes involving a total outlay of Rs. 28 crores—Rs 16 crores at the Central and Rs, 12 crores in the States. The programmes of the Central Social Welfare Board, including assistance to voluntary organisations and welfare extension projects, envisage a total outlay of Rs. 12 crores. In addition to the provision for social welfare programmes, schemes for child welfare entailing a total cost of Rs. 3 crores have been provided for under Education. Other schemes to be implemented under the social welfare programme relate to urban community welfare projects, training, research and surveys, social defence and after-care and the setting up of a Central Bureau of Correctional Administration. It is also proposed to make a small beginning in the direction of assisting certain categories of persons without any means of livelihood or support—the physically handicapped, old persons unable to work and women and children.
- 7. Considerable emphasis is being placed in the Third Plan on child welfare programmes. In each State and Union Territory at least one pilot project in child welfare will be taken up on the basis of complete coordination in services provided by medical and public health, education, social welfare and other agencies. It is also proposed to undertake pre-school education schemes and a training programme for child welfare workers (Bal Sevikas).
- 8. In the programme for social defence, priority is given to schemes for the prevention and treatment of juvenile delinquency, social and moral hygiene, suppression of immoral traffic in women and girls. With the passing of the Children's Act of 1960, which

applies to Union Territories, it is suggested that, on essential matters, there should be uniformity throughout the country. It is important to consider how the present programme for social defence could be worked even more effectively and the lines along which the community and the family could participate more fully in the work of rehabilitating women and grifs.

- 9. Beggary is an age-old social evil which has been allowed to consume far too long and, apart from the demoralisation it causes, is a source of discredit to the country. The problem has been studied in several places, and it is important that States and local bodies should now endeanour to deal with it effectively. In the first instance, beggary should be eradicated from large enties, places of pilgrimage and tourist centres. The problem of child beggars should be first isolated, as children who take to begging are often victims of gange exploiters. Beggars who are diseased, disabled, infirm or aged, should be taken care of in residential institutions run by voluntary welfare organisations. Able-bodied beggars should be rounded up and sent to work camps to be organised at the sites of various projects, Begging by able-bodied persons should be a public offence. It would be desirable to undertake Central legislation for the control and eradication of becary and variance.
- 10 For different types of handicapped groups, the primary object of the services provided should be to assist them to rehabilitate themselves through work. These services should be further developed along the following lines:
 - (a) teaching handicapped persons in their homes,
 - (b) providing work in the homes or in the neighbourhood for those not able to move.
 - (c) providing recreational facilities for the handicapped, the aged and the infirm, and
 - (d) providing assistance by way of special aids.
- 11 Urban community development has large possibilities for bringing about social and environmental change in urban communities despite their heterogeneous character. The success of this programme will depend by and large on the extent of self-help envinced by the people, the role of the official being essentially to supplement volumitary efforts. There is a large scope in this field of work for voluntary organisations.

PROHIBITION

Following the Directive Principle in the Constitution and the Resolution of the Lok Sabha in March, 1956, suggesting that prohibi-

tion should be an integral part of planned development, the Second Five Year Plan set out a scries of steps towards the implementation of the prohibition programme. Action has been taken in a number of States on these recommendations, but for the country as a whole progress has been slow. A Central Committee to review the progress of prohibition programmes and to coordinate activities in different parts of the country was set up towards the end of 1960.

- 2. Prohibition is essentially a measure of social welfare. Its success as a voluntary movement for social reform depends on a number of conditions, in particular on—
 - its acceptance as a public policy accompanied by concrete administrative steps to make the policy a reality;
 - (2) support of a large section of public opinion and active participation on the part of leading voluntary organisations and large numbers of social workers,
 - (3) finding practical solutions to problems such as employment and arranging for the utilisation and processing of products which would otherwise be used for the production of liquor; and
 - (4) enabling State Governments to meet possible loss of revenue on account of the progress of prohibition.
- 3. The question of loss of revenue on account of prohibition is an important one. This loss may itself be a temporary rather than a permanent effect and on balance may turn out to be smaller than is sometimes reckoned. If the movement of prohibition proceeds on the right lines—and this is the assumption on which proposals for prohibition must rest—it should make for a healthier life for the individual and the community, should help make the individual worker and his family more productive and should augment national, savings. In the initial stages, however, it may be that as a result of measures introduced in pursuance of prohibition, the revenue from excise may fall below the estimates which States have taken into consideration while formulating their plans. This aspect should be considered further by the Central and State Governments. Obviously, financial reasons alone could not lead to a fundamental break, in carrying out a social programme which is considered necessary in the interest of the mass of the people throughout the country.
- 4. Given this approach to the financial aspects of prohibition, it should be possible for each State to consider further steps. It is not envisaged that States should fix target dates for introducing complete prohibition, for such target dates are in practice difficult to work out or to adhere to. Nevertheless, a countrywide approach would

make it easier for all States to ensure implementation and to check inter-State and inter-district samugaling. The measures recommended in the Second Plan constitute a limited but practical programme which should be implemented in the course of the next two or three years. It should be possible also for States which have introduced prohibition in some districts to extend it steadily to other areas.

- 5. The question of the means to be employed and the agencies available is of special importance in a programme like prohibition. Obviously, if prohibition were to rest primarily on enforcement by the police and by excues staff, not much progress could be made. The main relance has, therefore, to be on-
 - (a) the creation of a growing public opinion in favour of prohibition conceived as a social welfare measure in the interest of the general mass of the people;
 - (b) voluntary organisations, who should be given the necessary support and assistance by the Government in carrying out social and educational programmes;
 - (c) implementation of various development programmes undertaken by government agencies in education, health, social welfare, etc., with due emphasis on the significance of prohibition; and
 - (d) availability in canteens of cheap and nutritious foods and non-alcoholic beverages, and encouragement of sports and recreational activities on a group and community basis.

With a view to achieving greater progress in these directions, it would be useful to provide financial assistance to voluntary organisations for educational and promotional work among the people and also to give a measure of support to other activities which will assist the progress of prohibition.

v

REHABILITATION OF DISPLACED PERSONS

After Partition, about 8.9 million persons migrated from Pakistan into India, about 4.7 million from West Pakistan and the rest from East Pakistan. Between 1947-48 and 1960-61, besides Rs. 128 crores spent on relief and other operations, a total outlay of about Rs. 239 crores has been incurred on the rehabilitation of displaced persons, about Rs. 133 crores being for displaced persons from West Pakistan and Rs. 106 crores for those from East Pakistan.

The rehabilitation of displaced persons from West Pakistan was undertaken in the main before and during the First Plan and of those from East Pakistan mainly within the First and Second Plans. Rehabilitation programmes have covered a wide range of activities, including resettlement on land, provision of housing, construction to townships and colonies, extension of education and health services, financial assistance for setting up business and industry, and starting of new industries.

- 3. The task of rehabilitating displaced persons is gradually coming to an end. In respect of displaced persons from West Pakstan provisions in the Third Plan are limited to residual requirements for housing schemes and assistance for educational and health services. For displaced persons from East Pakstan, the two specific objectives are the rehabilitation of 28,600 families residuing in 'camps' and other centres in West Bengal and of about 200,000 partially rehabilitated displaced families living in West Bengal. The development of the Dandakaranya project was taken up in the Second Plan with the object Primarily of settling displaced lamilies from East Pakstan who were still in 'camps' in West Bengal and, along with this, for promoting the welfare of the local population, specially the Advasss.
- 4. In its closing phases, rehabilitation of displaced persons takes the form more and more of specific tasks remaining over from an earlier period and merges into the larger efforts to rebuild the economy of the nation and especially of those States and regions which have borne the greatest burdens. Within the expanding national economy greater integration between rehabilitation and development helps the speedy economic assimilation of displaced persons.



CHAPTER 20

LABOUR POLICY

LABOUR policy has been evolving in response to the specific needs of industry and the working class and to suit the requirements of a planned economy The consensus of opinion of the parties concerned—employers, workers and Government—is secured through joint consultation, the apex of the tripartite machinery being the Indian Labour Conference. This consensus, as reflected in legislation and administrative action, takes on the strength and character of a national labour policy, operating on a voluntary basis. In the course of the Second Plan, a new approach was introduced to counteract unhealthy trends and give a more positive orientation to industrial relations, based on moral rather than legal sanctions. The stress now is on prevention of unrest by timely action at the appropriate stages. Significant developments during the Second Plan period included the introduction of the Code of Discipline in Industry and the Code of Conduct, schemes for workers' participation in management and workers' education, and a growing awareness of the importance of higher productivity in industry. In the context of the rising tempo of industrialisation, the working class has an important role and a growing responsibility during the Third Plan. The large expansion of the public sector will make a qualitative difference in the tasks set for the labour movement and will facilitate the transformation of the social structure towards socialism.

- 2. Industrial relations.—A full awareness of the obligations under the Code of Discipline has to extend to all employers and workers and it has to become a living force in the day to day conduct of industrial relations. Ways will be found for increasing the application of the principle of voluntary arbitration. It is essential that works committees are strengthened and made an active agency for the democratic administration of labour matters. The scheme of Joint Management Councils will be progressively extended to new industries and units so that it may become a normal feature of the industrial system.
- 3 A large-scale expansion of the workers' education scheme is visualised in the Third Plan period. It is intended to diversify the programme and secure fuller association of workers' representatives in its running.
- 4 Trade unions should be accepted as an essential part of the apparatus of industrial and economic administration and should

be prepared for the discharge of these responsibilities. Their leadership has to grow progressively out of the ranks of the workers and this process will be greatly accelerated as the programme of workers' education gathers momentum. The basis for the recognition of trade unions, adopted as a part of the Code of Discipline, will pave the way for the growth of a strong and healthy trade union movement.

- 5. Wages and social accurity.—For better implementation of the Minimum Wages Act, the machinery for inspection has to be strengthened. Wage Boards will be extended to other industries, according to circumstances. A Commission will be appointed to study the problems connected with bonus claims and to evolve guiding principles and norms for the payment of bonus.
- 6. The Employees' State Insurance Scheme will be extended to all centres where there is a concentration of 500 or more industrial workers, bringing the total coverage to about 30 lakh workers. The Employees' Provident Fund Scheme which now covers 58 industries will be further extended.
- 7. The social security approach has so far extended mainly to wage earners in organised industry. There are some groups whose condition ealls for closer attention on the part of the community. These include, in particular, the physically handicapped, old persons unable to work and women and children, where they are altogether lacking in the means of livelihood and support. With a wew to enabling voluntary and charitable organisations, municipal bodies, Panchayats and Panchayats Samitis to develop their activities with the help of local communities, and giving them a little support, a proposal to constitute a small relief and assistance fund is being examined and will be considered further to cooperation with States and voluntary oreanisations.
- 8. Working conditions, safety and welfare.—Steps will have to be taken to secure the more effective implementation of the statutory provisions regarding working conditions, safety and welfare. In this regard, the Central Labour Institute and the Regional Labour Institutes have a special role to play in improving working conditions and efficiency. A Standing Advisory Committee will be set up to promote measures for bringing down the incidence of accidents in factories. A National Mines Safety Council will be set up to deal with safety education and propaganda in the mining industry. The question of separate safety legislation for building and construction workers will be examined. Welfare funds will be constituted for workers in the manganese and iron ore mining industries on the pattern of similar welfare funds for coal and mica miners. Trade unions and voluntary oreansations will be encouraged to take greater interest in the

running of cooperative credit and consumer societies, as also other activities which are based on the principle of cooperation. The aspects of workers' housing and recreation will also receive greater attention. The problems of workers engaged in agriculture and unorganised industries should become a matter of special concern to Government and workers' oreanisations.

- 9 Employment and trauming schemes.—Additional 58,000 seats will be provided under the craftsmens' training programme, raising the training capacity to about 100,000 craftsmen. Separate training facilities will be provided for educated youth to widen the scope of their employment. The capacity of the three existing Central Training Institutes for craft instructors will be raised, and three other Central Institutes will be set up during the Third Plan period. The Apprenticeshup Training scheme will be placed on a compulsory basis and a Bill is proposed to be introduced in Parliament. About 100 employment exchanges are expected to be opened during the Third Plan with the object of providing at least one exchange in each distinct. It is intended to organise, on a limited basis, a relief and assistance fund for retrenched workers.
- assistance fund for restriction workers

 10. Productivity—Management should provide the most efficient
 equipment, correct conditions and methods of work, adequate training, suitable psychological and material incentives for the workers.
 Industry, trade unions and Government should cooperate in organising training programmes for the workers already on-the-job and the
 fresh recruits in order to improve their skill and efficiency. No real
 advance in the workers' standard of living is possible in this country
 without a steady nacrease in productivity. Workers have, therefore,
 to insist on and not resist the progress of rationalisation in their own
 interest and in the larger interest of the country. The scope for rationlisation can be considerably extended if effective arrangements are
 made for retraining and transfer of workers to other jobs, on the basis
 of the workers' consent. The formulation of the Code of Efficiency
 and Welfare will now be taken up for consideration by the Indian
 Labour Conference Greater attention should be given to the training of management at various levels in employer-employees relations.
- 11. A small central committee will be constituted for coordinating labour research. In addition, it is intended to provide new institutional facilities outside the set-up of the Government for research in labour matters.

ANNEXURE I

Production and development: progress and targets

										Percentage increase in	۵.
	ltem		•		Ont	1950-51	1955-56	estimated	1965-66 targets	1960-61 0ver 1950-51	1963-66 over 1960-61
	_				2	-	4	~	9	7	80
1. agriculture and community development	d commit	unity	deselop	ment							
foodgrains	:	:	:	:	million tons	52 2(a)	65 8(3)	0 92	0 001	46	٣
cotton	:	:	:	:	million bales	5.9		5 1	7 0	26	_
Sugarcane-gu	:	:	:	:	million tons	2 6	9	80	10 0		7
or speeds	:	:	:	:	million tons	2.	26	7.1	00		
Jufe ::	:	:	:	:	million bales	33	4 2	4 0	6 2(b)	77	35
::	=	:	:	:	multion lbs.	613	829	725	906		n
tobacco	:	:	:	:	000 tons	257	298	30	325		
ish ish	:	:	:	:	million tons	0 2	0	7	 	_	2
mik:	:	:	:	:	million tons	17.1	19 3	22 0	25 3	62	-
wool	1.00	:	:	:	million 16	8	S	72	8	20	
area irrigated (nett total	(nett to	Ę.	:	:	million acres	51.5	56 2	300	0 00	36	53
land reclamation (additional area) (d)	tion (ade	100	, Commercial Commercia	:	THE PARTY	1	2	>	2	99	

(a) Estimates of production adjusted for changes in statistical coverage and methods of estimation up to 1956-57

⁽b) Excludes mesta which may provide an additional 1 3 million bales in the Third Plan. (d) Relates to five-year period.

ANNEXURE I-contd.

ltem	Unit	1950-51	1955-56	1960-61 estimated	1965-66 targets	Percentage increase in 1960-61 over 1950-51	Percentage Percentage increase increase in
	2	3	4	~		7	
soll conservation (additional area benefited) (d) nutogenous fertilisers consumed phosphatic fetilisers consumed seed farms (d)	(d) million acres 000 tons of N 000 tons of P ₂ O ₃	12,1	501 21	230 70 4.000	0 1.000 4,800 4,800	1881	333 471 20
1.3 community development blocks	number 000 numbers millon numbers	111	1,069 106 69	3,110 368 204	\$223 \$50 359	111	8 6 5
1-4 cooperation primary agricultural credit societies short and medium term loans advanced	600 numbers	163 22-9	160 49-6	210 200 0	230 530 0	100 277	165
Power 1.1 electracity mishible capacity generated 1.2 towns and villages electrified	milion kW milion kWh GCO numbers	2-3(c) 3-4(c) 5- 6,375(c) 10,777(c) 19,850 3-7 7-4 23-	3-4(c) 10,777(c) 7-4	7 0	12 7 45,000 43 0	148 202 523	123 127 87

	ANNEXUE
180 76	163 209 67 400 332 125
234	150 150 150 150 150 150 150 150 150 150
30 0 97-0	9.2 6.8 1.50 80 0
10-7	3.5 2.2 0.90 40 8 9
4-3	1.3
3.2	1.4
million tons	million tons million tons million tons 000 tons 000 tons
	::::::
::	::: ₀ ::
::	: : : : (a)
::	다 : : : : : : : : : : : : : : : : : : :
: :	al industi
::	indi ots ots ots orsa l'and il and
3 minerals iton ore coal	4. Ingeveale industries stef ingular industries stef ingular flatished stef great flatished stef alloy, tool and special steet (finished) altuminlum corpert (fireterflated and electrolytic)

4.2 mechanical and electrical engineering industries cement machinery

- 34(c) 60	industrial believe 19 330 1,000	1 1 5	value in Ra, lakhs 34 78 S50	million numbers 0.1 0.9	63
:	:	:	:		
:	:	:	:		
tiene machinery	industral boiles	machine tools (made to	had a series (graded)	oan and rouce bearings	

650 203 6.150, 445 383

2,800

- (d) Relates to five-year period, (c) Relates to calendar year,
- (c) By working the capacity on three shifts.

ANNEXURE I-contd.

Item				Unit	1950-51	1955-56	1960-61 estimated	P 1965-66 targets	increase increase in 1960-61 over 1950-51	Percentage Percentage increase increase increase increase on in 1860.66 1965.66 over over 1950.51 1960-61
€		1		8	5	4	~	9	-	80
diesel engines (stationary)	8	:	:	000 numbers	2	0 01	40.0	0.99	627	65
tractors	:	:	:	number	ı	ı	2,000	000'01	1	9
E	and bel	(wo	:	000 h. p	8	272	92	2,500 (r)	8	257
electric transformers (33 ky and below)	ky and b	elow)	:	000 kva	179	625	1,200	3.500	570	192
electric cables (ACSR) conductors	enductors	:	:	000 tons	1 7	8 7	22 0	40	1,194	8
3 railway locomotives										
steam	:	:	:	number	7	13	295	1,175(d)	3,214	1
diesel	:	:	:	unmper	1	1	!	434(d)	ı	I
electric	:	:	:	number	ŧ	í	1	232(d)	I	I
4 rubber manufactures										
automobile tyres	:	:	:	million numbers	1	6 0	1 35	3 0	١	122
bicycle tyres	:	•	:	million numbers	ţ	2 8	0	31 0	I	182
5 chemicals					•					
nitrogenous fertilisers	:	:	:	000 tons of M	ō.	٤	9	800	1,122	627
phosphatic fertilisers	:	:	:	000 tens of P2 Os	6	12	22	9	511	627
sulphune acid	:	:	:	000 tons	66	<u>\$</u>	363	1,500	267	313
soda ash	:	:	:	000 tons	45	×	145	57	;;	,

ANNEXURES

caustic soda	:	:	:	:	000 tons	=	35	901	340	808	240	
sulpha druga	:	:	:	:	tons	ı	83(c)	150	1,000	ţ	295	
P.D.T	:	:	:	:	tons	1	284	2,800	2,800	ļ	1	
dyestuffs	:	:	:	:	million 1b	1	4.0	11 5	18 0	ł	57	
6 other industries; sewing machines (organised sector only)	pasiurs	sector	(class)		000 питрега	33	Ξ	297	007	800	136	
Picycles (organised sector only)	retor o	(ye	:	:	000 numbers	101	\$13	1,050	2,000	940	8	
motor cycles and scooters	oten	•	:	:	000 numbers	ł	-	12	S		178	
automobiles	:	:	:		000 numbers	16.5	25.3	53 5	100 0	224	67	
ship building	:	:	:	:	000 GRT	1	\$0(d)	9	20-60	ļ	150.200	
cotton textiles (mill made)	nade)	:	:	:	million yards	3,720	5,120	5,127	\$,800	38	13	
rayon filament	:	•	:	:	million 1b	0	16.0	47 0	140 0	11,650	198	
sugar (g)			:	•	million tons	1 12	1 86	30	3 5	168	:	
steel structural fabrications	Salions		:	:	000 tons	i	8	150	000.	ļ	267	
coment .				•	million tons	2.1	4.6	80	13 0	215	53	
petroleum products				•	multion tons	1	3 6	5 7	6	ı	7.	
paper and paper board	Ę				000 tons	<u>=</u>	187	350	200	207	901	
F!as;kc3					000 tons	i	0 2	10 0	34.0	1	640	
(c) Relates to calendar year	lar year										1	
(d) Relates to five-year period.	the red	200										

⁽d) Relates to Evenyear person.

⁽f) 330 th p. and below.

⁽g) Relain to crop year-November to October

ANNEXURE I-contd.

Item		1		Unit	1920-51	1955-56	1960-61 estimated	1965-66 targets	Percentage Percentage increase	Percentage increase in 1965-66 over 1960-61
-		١		7	3	4	s	9	-	æ
glass and glass-ware .	:		1	000 tons	92	125	225	440	145	96
industrial gases-oxygen		:	٠	milion cft.	1	1	200	1,650	1	136
village and small industries khadi										
traditional	:		•	million yards	7.3	28 9	48 0		558	
handloom		٠		million yards	742	1,471	500,1	3,50	155	\$
sericulture	:	:	:	million tons	2·5(h)			5.0	4	43
transport and communications 16 Transport Service railways: freight carried	:	:	:	million tons	5-16	114 0	154 0	245 0	89	65
roads: surfaced meluding national highways	tional h	ighway			97.5	122-0	140	0 691		: :
road transport commercial schieles on roads	chicles	on roa	ğ	000 numbers	911	991	210	365	8	7.4
shipping				lakh GRT	3.9	4 8	0.6	10 9	130	12
major ports ; handling capacity	cıty			million tons	82	22	33	49	88	32
6.2 communications										
post offices	:	:	:	000 numbers	36	SS	11	6	114	22
telegraph offices	:	:	•	000 numbers	3.6	5 1	6.5	8 5	81	31
number of telephones	:	:	٠	000 numbers	168	280	450	660	174	43

	Ę	i	
	ä	ì	
	č		

7-1 general education students in schools		. :	million numbers	23.5	31.3	43.5	6.19	\$\$	4
5 8	tage of	į.	6.11 years	42.6	52.9	1.19	76.4	19(1)	45 (1)
;		:		12.7	16.5	33.8	38.6	(0201	55 (1)
middle stage high/higher secondary stage	: :	: :	14-17 years	5:3	7.8	=	15 6	0)601	S7 (d)
institutions:			000 numbers	209.1	278-1	342.0	413.0	3	7.
primary/junior basic schools	•		000 numbers	13.6	21.7		27.7	Ξ	Ģ
hand the property of the second	: :	: :	000 numbers	7.3	8 01	16 6	8 7.	21	7
multipurpose schools		:	_	ı	0 3		ŕ	ı	Ξ
7 2 technical education									
degree level (intake)			number	4.120	5.890	13,858	19,137	236	83
	:	:		\$,900	10,480	25,570	37,390	וונ	ę
agriculture colleges (intake)	:	:	number	1,000(1)	1,989	4,600	6,200	33	35
veterinary colleges (intake)	•	•	number	434())	1,269	1,300	1,460	200	2

⁽c) Relates to calendar year.

(j) Relates to 1951-52

⁽h) Calendar year 1951.

(i) Worked out from enrolment figures.

ANNEXURE I-contd.

Dint 1990-31 1955-66 1960-64 1965-66									Percentage Percentage	Percentage
1 2 3 4 5 6 7	Way!			Chrit	1950-51	1955-56	1960-61 estimated		1960-61	1965-66 1965-66
11 12 13 14 15 15 15 15 15 16 15 16 15 16 16				-	-	7	1	0		8
dispersance	s. nealth		l				İ	١		۰
dispersanter	8 I institutions									
1	hospitale and dispersion									
1	. Courselladella dispersion		:	000 numbers						
th unit					٥			4	43	
15 15 15 15 15 15 15 15			:	000 numbers	Ξ					9
143 140	Drimary health unite				•			140		ç
1				numper	1	3,4	500	*		
1,649 8,200	family planning centres		٠	- mphase		:	20.1	93,	ł	79
Set (misk) number 2,500 1,500 5,000 8,000		•	:	The state of the s	ı	74	649	S		
number 2,500 3,500 8,000 000 numbers 56 65 70 81 3, 000 numbers 15 10 18 270 45 000 numbers 18 129 48 5 000 numbers 18 6 1115 40 0 000 numbers 18 6 1115 40 0	8.2 personnel							2	I	242
guamber 2,500 1,500 5,000 8,000 OOS numbers 150 18 0 27 0 81 OOS numbers 150 18 5 270 48 5 OOS numbers 18 0 12 8 19-9 48 5 OOS numbers 18 6 4 11-5 40 0 5 OOS numbers 18 6 4 11-5 40 0 5	Hedren Cottons (1111)									
(1) COO numbers		:		umber	200	3	****			
1. O'O' munifer; 156 65 70 81 1. O'O' munifer; 150 185 270 440 1. O'O' munifer; 160 185 19-9 485 1 1. O'O' munifer; 16 64 11-5 40 0 1. O'O' munifer; 18 64 11-5 40 0			•			3	2,800	8	132	82
(5) COO numbers 150 185 270 450 150 150 150 150 150 150 150 150 150 1		:		O numbers	\$	**	ć			9
(k) COO numbers 150 185 270 450 COO numbers 18 64 11-5 400 CO numbers 18 64 11-5 400 CO numbers 3-5 40 60 19-2	nures (k)		•			3	2	8	23	9
(b) 000 numbers 80 128 19-9 48 5 10-0 000 numbers 18 64 11-5 40 0 5 10-0 10-0 10-0 10-0 10-0 10-0 10-0	auxiliary numeromidus	:		oo numbers	20	18 5	27 0	45.0	2	,
000 numbers 18 64 11-5 48 5	White and midwing and midwin	3 (X)	٥	00 numbers		0	9		2	6
000 numbers 3-5 40 60 192			-			1	5	48 5	49	144
000 numbers 3-5 4 0 6 0 19 2	health acceptants and some			A mumoens	∞	9	11.5	40.0	900	
260 00	and samuary inspect	513	•	00 numbers	3.5	9			650	748
	(b) to ment		ļ			7	0 0	100	7	0,00

ANNEXURE II

Outlay during the Second Plan and cost of physical programmes in the Third Plan-estimates by heads

(Rs. lakhs)

Head of deschamens		Estimated	Estimated outlay in Second Plan	cond Plan		Estur	Estimated cost of programmes in Third Plan	programmes	s in Third	'Jan
	States	Union	States and Union Territories	Centre	Total	States	Union Territories	States and Union Territones	Centre	total
-	7	-	-	s	0	-	*	6	2	=
agricultural production ,,	8,367	268	8,635	1,075	9.810	1,8351	865	1.8949	3.658	22,607
minof tragation , ,	991'6	86	9,764	230	9,494	17,269	171	7,446	230	17,676
ioil conversation	1 553	-	1,361	8	1,761	5,732	246	5,978	1,295	7.273
animal husbandry , ,,	869	2	1,942	300	2,142	4,592	172	4,764	680	3.444
lateying and milk supply	956		196	44	502.	3,086	24	3,110	498	3.608
orests	1,656	2	1,778	130	1,928	4,204	268	4,472	667	3
wheries ,,	710	56	36	2	906	2,090	102	2,192	672	2,864
storage	310	20	328	170	498	843	01	853	3,300	4.153
1 agricultural programmes	24,598	919	25,205	2,439	27,643	191'95	1,597	57,764	11,000	68,764
, honrestion	3,278	\$\$	3,333	S	3,383	6,939	=	7.110	8	900
community desclopment ,,	18,744	463	19,207	200	19,407	28,189	\$78	28.767	909	70,00
panchayats	460	30	490	19,76(a)	2,466	2,824	36	2,880	į į	2,880
11. Community develop- ment and cooperation	22,482	548	23,030	2,226	25,256	37.972	785	18 747	8	1
	1	l	1	1				20,000	200	4,0257

ANNEXURE II—contd

State Turnores T	head of development		Estimated o	Estimated outlay in Second Plan	ond Plan		E	stamated cos	it of progra	Thomas in Th	Thursday
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		States	Union	States and Union	Centre	Total	States	Union	State and Union	Centre	Total
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	-	2	-	4	2	9	-		Territories		
power 76,414 913 71,236 9,270 66,456 115,213 21,415 9,404 9,414 1131 21,415 9,414 9,414 1131 21,415 9,414 1131 21,414 21	agation	34,479 (b) 41.882	!		4,800	37,271 4,800 44,549	58,121 5,995	137	58,131		
Miles 2.65 2.7 2.64 17.23 18.98 7.58 17.33 17.34 17.33 17.34 17.33 17.34 17.33 17.34 17.3	III. irrigation and power	76,361	-	77,296	9,270	86,366	152.471		1.		۱≏
14.75 1.58 15.91 16.715 14.61 14.77 12.118 12.340 15.74 16.715 14.70 14.70 15.718 15.24 15.24 16.718 16.	dustries and minerals lage and small industries	6,949		7,243	87,128 10,323	89,989 17,566	13,703	1	-	1=	- -
14.175 1.588 1.593 46.011 2.349 2.514 5.001 2.3494 2.517 2.4405 94.000 2.3494 2	1V. industries and minerals	9,808	296	10,10 10,10	97,451	10,7555	21.661		"	-1	20,428
314 45 359 5.48 5.49 600 12.00 1	was s dd (ransport rrsm	1,302	1.598 19	15924	86.011 6.440 225	86,011 22,364 1,818	21.830	2,575	155	8,000 8,000	32,405
52	1s and harbours sping ts and telegraphs	<u>\$</u> 11	± []	. 1 3 <u>5</u>	2,980 5,268 5,059	3,339	1 430	22 18 263(d)	263 263	350 12,500 5,500	13,008
720	adeasing er transport er communications	1121	1121	1121	4,900 468 327	4,800 1324 124 124 124	11181	11121	1 1 1 2 5	5.500 1.200 1.200	5.500 1.100 1.100 1.100
	transport and communi-	16,338	1,846	18,184	111,791	129,975	25,031	3,462	28.493	026 911	930

141,636

47.3000

94,336

7,611

86,725

73,024

27.444

45,580

1,820

41,810 14,159 000, 34,180

2,800 000, 8 200 2,500

34,070 7.159

2,104

3,1906 6,986

20,804 4.772

4,072 2,600

16,732 2,172

22

general education and cultu-

2,141 I 3,021 6,411 4000

scientific and technological

research .. housing calth

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29,680 į

27,114 9.620 ١

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2,076 25,66

					11011 00 00	11.01.	1.820 45 580 27 464	45 580	1.820	43,760	VI. social service
RES	5,000		34	ı	34(c)	ı	1	1		'	works
ΧU	30.	200									ubile cooperation and local
INE		400	ı	1	1	6,341	6,341	1	ı	ı	rehabilitation
A)	7.108	4 400	2,708	189	2,519	1,981	1,200	781	7	169	labour and labour welfare
	2,762	009'1	1,162	114	1,048	1,518	1,181	337	9	327	social wellare
	11,387	3,500	7,887	389	7,498	7,941	2,647	\$,294	214	2,080	wellare of backward classes
											The second second

(b) In the Second Plan, outlay for 'flood control' is shown at the Centre.

⁽c) in addition to this arrount, outsit for Yubic cooperation" will have to be found within the agreed Thind Plin celing by suitable adjust ment in the figures, Rad of that next in Analina Pradech and West Bengal, 18.5 I shah in Mysore (c) Includes part provision for D.V.C. power programme and Bandel thermal station (d) For Andaman and Neobar Islands,

ANNEXURE II-contd.

(Rs Jakhs) Estimated cost of programmes in Third Plan States Total Estimated outlay in Second Plan Contre States Dona States Head of development

	States	Union	Un son Terratories	Centre	Total	States Te	Union	and Union Territories	Centre	Total
1	~	^	٠	<u>~</u>	9	,	80	0	9	=
toty	276	r#4	528	50.86(f)	9.980	322 362 310	288	353	881	849 1,220 375
:	3,196	۱¤	3,196		_	2,475 1,075	933	2,475	100,	6,108
:	4,797	97	4.894	5,086(f)	9.980	4,744	1,083	5,827	5,200	11,027
	198.135	6,158	204,293	255,707	460,000	384,731(g)	17,487	402,218	40,7635(h) 8	09.853(h)

(g) The distribution of outhys in West Bergal is subject to adjustments; (I) on account of West Bengal's share in the D.V.C. and (ii) increase in recourses estimated at Rs. 43 croses, which the State Government expects to raise above the level of Rs. 50 croses shown in Chapter (f) Includes also anterpated outlay on account of Department of Atomic Energy, schemes of the Ministry of Finance and office and residential buildings under the propraemes of Ministry of Works, Housing and Supply,

(h) This excludes provision of Rs. 200 crores for 'Imentones'.

VI-Financial Resources,

ANNEXURES

ANNEXURE III

Outlays during the First, Second and Third Plans for States and Union Territories (Rs. crores)

State/Union Territo	ry			First Plan (actual)	Second Plan (estimated)	Third Plan (pro- gramme outlay)
Andhra Pradesh				188	175	305
Assam				28	51	120
Bihar				102	166	337
Gujarat				224 (a)	143	235
Jammu & Kashmir				13	25	75
Kerala				44	76	170
Madhya Pradesh				94	145	300
Madras .				85	167	290 9
Maharashtra				(b)	207	390
Mysore .				94	122	250
Orista				85	85	160
Punjab				163	148	231 4
Rajasthan .				67	99	236
Uttar Pradesh .				166	227	497
West Bengal .				154	145	250(c)
total—Sta	les			1,427	1,981	3,947-3
Andaman and Nicob	inds	2	3	9.8		
Delbi			•	10	14	81.8
Himachal Pradesh			:		16	27 9
Maniput				8 2	6	12-9
N.B and T.A.	:				4	7 1
Triputa .				3	9	16-3
Laccadive, Amindist and Minicov Islands				_	0.4	10
N.Ε.Γ.Λ			••	4	5 6	7 1
Pondicherry				1	4	6 9
total—Union 7	Territo	nes		30	62	174 8(d
total-all	India			1.457	2.043	4,022 1

- (a) For the composite State of Bombay.
- (b) Indicated against Gujarat.
- (c) Provisional,
- (d) Includes an unallocated amount of Rs. 4 crores,

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